

FRIDAY, SEPTEMBER 28.

Train Accidents in August.

The following accidents are included in our record for month of August:

REAR.

On the morning of the 1st a freight train on the New York, Lake Erie & Western road ran into a coal train at Jefferson Junction, Pa., damaging several cars. Oa the morning of the 7th a freight engine on the Penn-sylvania Railroad while shifting at Oliphant, Pa., ran into some coke cars, wrecking several cars and killing two brakemen.

some coke cars, wrecking several cars and killing two brakemen.

On the morning of the 7th a freight train on the Buffalo, New York & Philadelphia road broke in two near Aurora, N. Y., and the rear section ran into the forward one, wrecking seven cars.

On the afternoon of the 9th a freight train on the Louisville, New Albany & Chicago road broke in two near Bainbridge, Ind., and the rear section ran into the forward one, wrecking several cars.

On the evening of the 9th a possenger train on the West Jersey road ran over a misplaced switch and into a passenger train anding on a siding in Woodbury, N. J., drivinz it forward into a third passenger train, wrecking a car, killing one man and injuring four others.

On the afternoon of the 10th a coal train on the Central Railroad of New Jersey ran into a preceding coal train near Wilkesbarre, Pa. An engine was damaged, 25 coal cars wrecked and a brakeman killed.

On the morning of the 13th a freight train on the New York, Lake Erie & Western road ran into the rear of another freight which had stopped at Bergen, N. J., to take on some cars. The caboose was wrecked, the engine and two cars damaged, and a man in the caboose scaled by steam from the engine. There was a fog at the time, and a brakeman had been sent back with a signal, but did not go far encugh.

On the afternoon of the 13th the second section of a cir-

man had been sent back with a signal, but did not go far encugh.

On the afternoon of the 13th the second section of a circus train on the Delaware, Lackawanna & Western road ran into the rear of the first section near Chenango Forks, N. Y., damaging the engine and three cars.

On the afternoon of the 14th a freight train on the Pennsylvania Railroad ran into some cars which had broken loose from a preceding freight in Jersey City, N. J., wrecking a car.

On the afternoon of the 15th a yard engine on the Chicago & Northwestern road ran into the rear of a construction train near Quinnesec, Mich., wrecking the engine and one car and injuring two train men fatally.

On the evening of the 15th a freight train on the Chicago & Northwestern road ran into a preceding freight near Chicago. The engine and 9 cars were damaged and a fireman hurt.

man burt.

Very early on the morning of the 17th a passenger train on the Atlanta & Charlotte Air Line road ran over a misplaced switch and into a freight train standing on a siding in Charlotte, N. C. The engine was badly broken, and the fireman was caught between the engine and tender and crushed to death.

fireman was caught between the engine and tender and crushed to death.

On the morning of the 17th a freight train on the Chicago & Northwestern road ran over a misplaced switch and into some freight cars standing on a siding in Calvary, Wis. The engine and nine cars were piled up in a bad wreck.

On the morning of the 17th a passenger train on the Philadeliphia, Wilmington & Baltimore road ran into a freight train near Angora, Pa., wrecking several cars, killing one trainman and injuring another.

On the evening of the 17th, as a milk train on the New York, Susquehanna & Western road was approaching Two Bridges, N. J., a helping engine, which had come up the grade from Ogdensburg with the train, was detached, and ran on ahead into a siding. For some reason the switch was not turned, the train followed the helper into the siding and both engines were badly damaged and two trainmen hurt.

On the morning of the 18th a freight train on the Indian-

we trainmen hurt.

On the morning of the 18th a freight train on the Indianpolis & St. Louis road ran into a preceding freight on a
restle near Hadley, Ind., wrecking a car. The engine was
prown over on its side across the trestle, blocking the road

thrown over on its side across the trestle, blocking the road all day.

On the evening of the 20th a freight train on the Pennsylvania Railroad ran into the rear of a passenger train which had been stopped by an accident at Germantown Junction, Pa. One car was slightly damaged.

About noon on the 21st a passenger train on the Pittsburgh & Lake Erie road ran over a misplaced switch and into a freight train standing on a siding in Hazleton, O. The engine and two freight cars were wrecked, five trainmen seriously injured and five passengers slightly hurt.

On the atternoon of the 21st a freight train on the New York Central & Hudson River road ran over a misplaced switch and into some freight cars standing on a siding in Herkimer, N. Y. The engine and seven cars were badly damaged, and the conductor hurt.

On the evening of the 21st a freight train on the Indianapolis & St. Louis road ran into a preceding freight near Danville, Ind., damaging several cars.

Very early on the morning of the 22d a freight train on the New York Central & Hudson River road ran into a preceding freight which had stopped near Port Byron, N. Y., to cool a hot box. Some damage was done and a fireman hurt.

On the morning of the 22d a freight train on the New York Central & Hudson River road ran into a preceding freight which had stopped near Port Byron, N. Y., to cool a hot box. Some damage was done and a fireman hurt.

On the morning of the 22d a freight train on the New York, Lake Erie & Western road ran into the rear of a pas-senger train which had stopped at Middletown, N. Y. A passenger car was wrecked. The passenger train was on

time.
On the morning of the 24th a freight train on the Wabash,
St. Louis & Pacific road broke in two near Wabash, Ind.,
and the rear section ran into the forward one, wrecking

sand the rear section and the several cars.

On the morning of the 24th a freight train on the Galveston, Houston & Henderson road ran over a misplaced switch and into another freight train standing on a siding in Galveston, Tex. The engine and five cars were badly

the Baltimore & Ohio road broke in two near Coon Island, Pa., and the rear section ran into the forward one, wreck-

Pa., and the rear section ran into the forward one, wrecking four cars.

On the night of the 27th a freight train on the Nashville, Chattenoga & St. Louis read ran into some cars which had been left on the track in the yard in Nashville, Tenn., damaging two of them.

On the night of the 27th a freight train on the Cleveland & Pittsburgh road ran into some cars which had been left on the main track at Mingo Junction, O. The engine was damaged and two freight cars wrecked.

On the morning of the 28th a freight car which had been switched off by a passenger train on the Ganpete Valley road at Nephi Summit. Utah, got away from the man who had charge of it and ran off down grade after the train. It struck the rear end of the train, damaging a car and injuring four passengers.

On the morning of the 29th an engine on the New York.

struck the rear end of the train, damaging a car and injuring four passengers.

On the morning of the 29th an engine on the New York.

Lake Erie & Western road ran into a coal train in the yard
at Port Jervis, N. Y., wrecking two cars.

On the morning of the 29th a freight train on the Union
Pacific road ran into a preceding freight near Waterloo,
Neb., damaging eight cars. There was a dense fog at the
time.

On the morning of the 31st a freight train on the New York, Lake Erie & Western road broke in two near Bing-hamton, N. Y., and the rear section ran into the forward one, wrecking several cars and blocking both tracks two hours.

On the morning of the 1st there was a butting collision between two freight trains on the Troy & B ston road near Pownal, Vt. The engines were completely wrecked, and 50 cars were piled up in a very bad wreck, which caught fire in a few minutes and was almost entirely destroyed. Six trainmen were killed or burned to death, and three others were burk. A brakeman, although badly injured, ran back and flagged a passenger train which was nearly due. The accident was caused by the mistake of an operator, who, it is said, was only 17 years old and had been on duty 15 hours.

On the afternoon of the 4th there was a butting collision of the Louisville & Nashville and near Williamsburg, Ky., caused by a mistake on the art of the trainmen. Both engines and five cars were annaged.

part of the trail-men. Both engines and five cars were damaged.

On the evening of the 4th there was a butting collision between a freight train and a yard engine on the Texas & Pacific road at Longview Junction, Tex., ty which both engines and two cars were wrecked and a brakeman killed.

On the morning of the 6th there was a butting collision between a passenger train and a wild engine on the Toledo, Cincinnati & St. Louis road near Frankfort, Ind., by which both engines were badly wrecked.

On the night of the 8th there was a butting collision between a regular and a switching passenger train on the Manhattan Elevated road at the Cortlandt street station in New York. The engine and a car were damaged, the engineer killed and a passenger hurt.

On the night of the 9th there was a butting collision between two switching freight trains on the Texas & Pacific road in the yard at Fort Worth, Tex., and taree cars were wrecked.

road in the yard at Fort Worth, Tex., and three cars were wreeked.

Very early in the morning of the 10th there was a butting collision between two freight trains on the Union Pacific road near Kearney, Neb., by which both engines and seven cars were badly damaged.

On the morning of the 10th there was a butting collision between two freight trains on the New York, Lake Erie & Western road in the yard at Binghamton, N. Y. Both engines were slightly damaged.

On the morning of the 11th there was a butting collision between a regular freight and a circus train on the Kentucky Central road near Rennick, Ky. Both engines were damaged.

between a regular freight and a circus train on the Kentucky Central road near Rennick, Ky. Soth engines were damaged.

On the morning of the 15th there was a butting collision between a wild engine and a ballast train on the St. Louis, Iron Mountain & Southern road, near Cadet, Mo. Both engines and several cars were wrecked, two trainmen killed and three others hurt.

On the afternoon of the 15th there was a butting collision between two yard engines, on the Rochester & Pittsburgh road, in Rochester, N. Y., but the damage was very slight. On the afternoon of the 17th there was a butting collision between two yard engines on the Pennsylvania Railroad in the yard in Philadelphia. Both were damaged.

On the morning of the 18th there was a butting collision between two freight trains on the Chesapeake & Ohio road near Ronceverte, W. Va.. by which both engines and 20 cars were wrecked and a fireman hurt.

On the night of the 22d a freight train on the Ohio & Mississipi road left a part of the train standing on a grade near Caseyville, Ill., the train being too heavy for the engine to get over the grade. The detached cars started off and ran back seven miles and into the head of a following freight. The engine and two cars were wrecked and a trainman killed.

On the morning of the 25th there was a butting collision

the engine and two cars were wrecked and a trainman filled.

On the morning of the 25th there was a butting collision between two freight trains on the Louisville & Nashville oads near Chef Menteur, La., by which both engines and everal cars were wrecked and three trainmen hurt. On the evening of the 25th there was a butting collision between two freight trains on the Cleveland, Columbus, clincinnati & Indianapolis road near Anderson, Ind., by which both engines and 14 cars were badly damaged.

On the afternoon of the 26th there was a butting collision between two freight trains on the Canadian Pacific road, near Rat Portage, Manitoba. Both engines and seven cars were wrecked, a brakeman killed and the road blocked 12 nours.

Very early on the morning of the 27th, there was a butting collision between a passenger and a freight train on the Pittsburgh, Cincinnati & St. Louis road, near Mingo Junction, O. Both engines, the mail and baggage cars, and four freight cars were badly wrecked; a postal clerk was fatally hurt and five trainmen less severely injured. The conductor of the freight had orders to meet the express, but did not obey them.

on the freguent and of the 27th, there was a butting collision on the afternoon of the 27th, there was a butting collision on the tween an ore train and a ballast train on the Central Railroad of New Jersey, near Middle Valley, N. J. Both engines were damaged and 25 ore cars piled up in a bad wreck. On the morning of the 28th, there was a butting collision between two freight trains on the New York, Ontario & Western road, near Pratt's Hollow, N. Y. Both engines were damaged.

veston, Tex. The engine and five cars were badly damaged.

On the evening of the 24th a passenger train on the Louis-ville & Nashville road ran over a misplaced switch and into a freight train standing on a siding at Lebanon Junction, Ky. Both engines and several cars were damaged and two trainmen hurt.

On the efternoon of the 8th a Wabash, St. Louis & Pacific freight ran into a St. Louis & Cairo freight at the crossing in Cairo, Ill., wrecking several cars.

On the morning of the 17th a passenger train on the Elizabeth, Lexington & Big Sandy road ran into a Kentucky Central freight train at the crossing of the two roads at winchester Crossing, Ky. The engine of the passenger train struck a freight cars in twick a freight cars in the carpine of the 26th a freight train on wrecking and destroying the engine, four freight cars and

the station building. Both conductors were killed and five others, all trainmen or yardmen, were hurt.

Very early on the morning of the 19th a freight train on the St. Louis Bridge road ran into an Ohio & Mississippi freight at the crossing in East St. Louis, Ill., knocking the eneine over and pliing several cars on top of it.

On the evening of the 22d a Cleveland, Columbus, Cincinnati & Indianapolis yard ergine ran into a Cincinnati, Hamilton & Dayton freight train at the crossing in Dayton, O., doing some damage.

On the evening of the 24th a Philadelphia & Eric freight train ran into a Philadelphia & Reading freight at the crossing in Milton, Ps., wrecking several cars.

On the morning of the 26th a New York, Lake Eric & Western freight train ran into a New York Central & Hudson River passenger train at the crossing in Buffalo, N. Y., damaging one car and is juring a passenger.

DERAILMENTS.

BROKEN RAILS.

On the morning of the 7th a freight train on the New York, Lake Eric & Western road struck a broken rail near Savona, N. Y., and nine cars were thrown from the track. About noon on the 25th a; assenger train on the Wabash, St. Louis & Pacific road struck a broken rail near Moberly, Mo., and the whole train was thrown from the track. The baggage car was wrecked.

baggage car was wrecked.

BROKEN FROG.

On the morning of the 2d two cars of a passenger train on the Pittsburgh & Western road were thrown from the track near Wittner, Ps., by a broken frog.

On the evening of the 18th the engine and two cars of a freight on the Intercolonial road were thrown from the track at Nauwidgewank, N. B., by a defective frog.

BROKEN SWITCH-ROD.

On the morning of the 31st a car of a passenger train on the Cleveland & Pittsburgh road was thrown from the track at Ravenna, O, by a broken switch-rod. The car was thrown over against a freight train on a siding and badly broken. A brakeman who was standing by the freight was

killed.
On the morning of the 30th a passenger train on the Philadelphia & Atlantic City road was thrown from the track at Pleasantville, N. J., by a broken switch-rod. The engine passed over safely, but its weight jarred the switch out of place and five cars were thrown from the track, upset down the bank and badly broken. Three trainmen and 25 passengers were hurt, besides a number slightly bruised.

BROKEN BRIDGE.

BROKEN BRIDGE.

On the afternoon of the 21st a trestle bridge on the Memphis & Little Rock road near Forest City, Ark., gave way under a passenger train, and the engine went down 15 ft., with two cars piled upon top of it. Two passengers were killed, one injured so that he died that night, and 11 others less seriously hurt.

On the night of the 29th a freight train on the International & Great Northern road broke through a wooden bridge near Crockett, Tex., which had been partially destroyed by fire. The whole train went down into the creek in a bad wreck, killing two brakemen and injuring the engineer.

SPREADING OF RAILS.

On the evening of the 1st a passenger train on the Southeastern Railway, of Canada, was thrown from the track near Newport, Vt., by the spreading of the rails. The whole train left the track, and one car was badly broken, injuring three trainmen and nine passengers.

On the morning of the 9th four cars of a freight train on the Gulf, Colorado & Santa Fe road were thrown from the track near Kopperl, Tex., by the spreading of the rails.

On the afternoon of the 14th a passenger train on the Toledo, Cincinnati & St. Louis road was thrown from the track near Abanaka, O., by the spreading of the rails, and the engine upset, scalding the engineer badly.

On the morning of the 15th several cars of a freight train on the Buffalo, New York & Pailadelphia road were thrown from the track near Ischus, N. Y., by the spreading of the rails.

rails.
On the afternoon of the 15th a freight train on the Missouri Pacific road was thrown from the track near Pacific, Mo., by the spreading of the rails. Eight cars were wrecked and a lot of cattle killed.
About noon on the 18th a local passenger train on the Central Pacific road, was thrown from the track in Oakland, Cal., by the spreading of the rails, caused, it is said, by the intense heat and iosufficient allowance for expansion.
On the evening of the 25th a passenger train on the Texas & St. Louis road was thrown from the track near South Bosque, Tex., by the spreading of the rails, and two passengers were hurt. One car rolled over down a bank.

On the afternoon of the 2d four cars of a freight train on the New York Central & Hudson River road were thrown from the track in Utica, N. Y., by a broken wheel.

On the night of the 7th a freight train on the New York, Lake Erie & Western road was thrown from the track near Califcoon, N. Y., by a broken wheel under the tender.

On the morning of the 15th six cars of a coal train on the Northern Central road were thrown from the track near Watkins, N. Y., by a broken wheel.

BROKEN AXLE.

On the morning of the 10th several cars of a coal train on the Central Railroad of New Jersey were thrown from the track near Elizabethport, N. J., by a broken axie.

On the 10th a freight train on the Chicago, Burlington & Quincy road was thrown from the track near Louisville, Neb., by a broken axie, and 13 cars were wrecked.

On the morning of the 14th a car of a passenger train on the Illinois Central road was thrown from the track near Kankakee, Ill., by a broken axie.

On the afternoon of the 20th seven cars of a freight train on the Penusylvania Railroad were thrown from the track at Frankford Junction, Pa., by a broken axie.

On the afternoon of the 23rd the engine of a passenger train on the New York Central & Hulson River road was thrown from the track at Lyons, N. Y., by a broken truck axie.

axle.
On the morning of the 30th five cars of a freight train on the Indiana, Bloomington & Western road were thrown from the track near Stillwater, O., by a broken axle, and one car was completely wrecked.

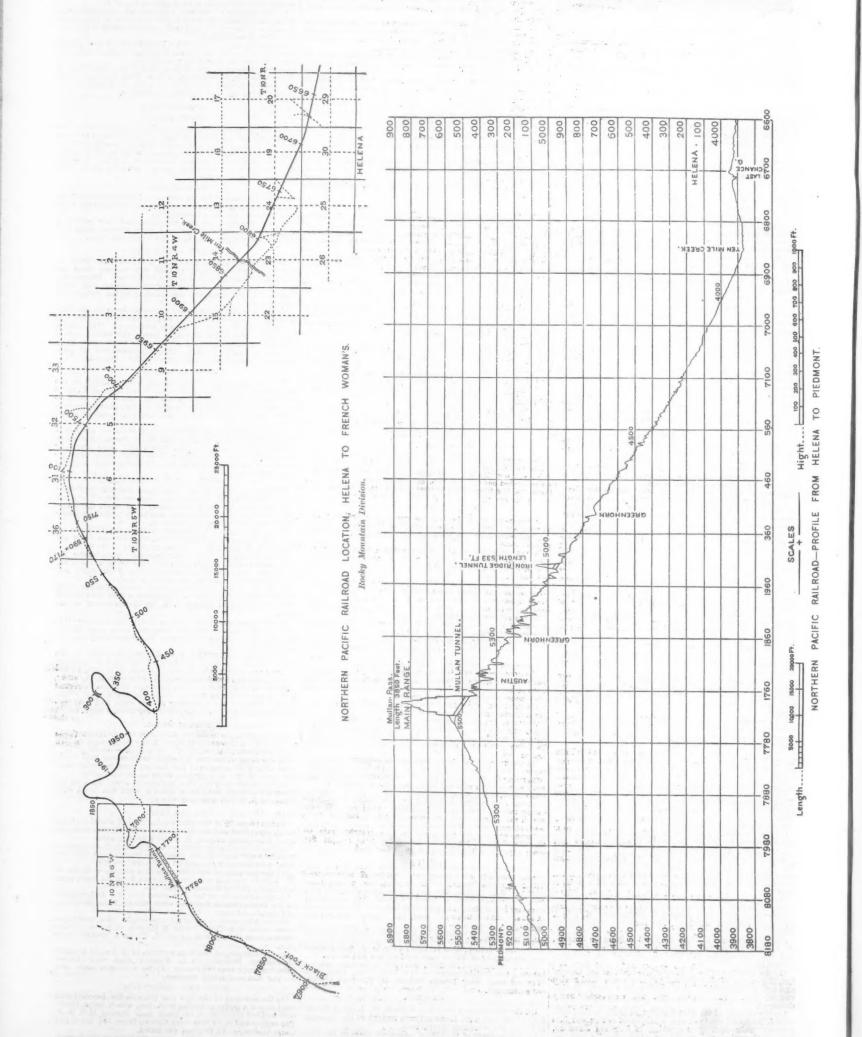
ACCIDENTAL OBSTRUCTION.

ACCIDENTAL OBSTRUCTION.

On the morning of the 2d a coal train on the Intercolonial road struck a push-car loaded with ties, which some trackmen had left standing on the track near Spring Hill, N. S. The engine and eight cars were thrown from the track and badly broken, and a fireman was killed.

On the morning of the 3d a passenger train on the Boston, Wintbrop & Point Shirley road was thrown from the track near Winthrop Junction, Mass., by a brake beam falling down on the rails.

On the morning of the 17th two cars of a freight train on the New York Central & Hudson River road were thrown



from the track in Rochester, N. Y., by a brake-beam which fell down on the rails.

from the track in Rochester, N. Y., by a brake-beam which fell down on the rails.

On the morning of the 22d a freight train on the Vicksburg & Meridian road struck a push-car loaded with lumber at Four-Mile Bridge, Miss., and the engine and two cars were thrown from the track and went off the bridge, falling 35 ft into a ravine in a bad wreck. The engineer jumped and was hurt.

CATTLE ON TRACK.

Very early on the morning of the 3d a passenger train on the Baltimore & Ohio road ran over a cow near Edinburg, Va., and the engine and one car were thrown from the track and rolled over down a bank. A brakeman was killed and the engineer and fireman so badly scalded that both died

ground below.
On the morning of the 9th a freight train on the Houston & Texas Central road ran over a cow near Waco, Tex., and the engine and five cars were thrown from the track. The engineer was slightly hurt.
On the morning of the 16th a freight train on the Windsor & Annapolis road ran over a cow near Lawrence, N. S., and five cars were thrown from the track, injuring two trainmen.

men.

On the morning of the 17th a freight train on the Utah & Northern road, drawn by two engines, ran over a cow near Butte, Mon., and both engines and several cars were thrown from the track and down a bank and badly wrecked. A fireman was killed.

fireman was killed.
On the morning of the 17th a freight train on the Chesapeake, Ohio & Southwestern road ran over a cow near Memphis, Tenn., and the engine was thrown from the track. The engineer and fireman were hurt.
Very early on the morning of the 29th a passenger train on the Wabash, St Louis & Pacific road ran over a cow near Clifton, Mo., and the engine and two cars were thrown from the track. The engine upset, killing the engineer.

WASH-OUT.

On the evening of the 18th a passenger train on the hicago, Burlington & Quincy road ran into a wash-out ar Edicott, Neb., and the engine and ore car were

WIND.

On the evening of the 21st a freight train on the Chicage & Northwestern road was blown from the track at Zumbrota Junction, Minn., and the engine and five cars were wrecked. The fireman was killed.

OPEN DRAW.

On the afternoon of the 18th the engine and tender of a passenger train on the Louisville & Nashville road went through the open draw of a bridge near Mobile, Ala. The engineer went down with his engine and was drowned.

engineer went down with his engine and was drowned.

MISPLACED SWITCH.

On the night of the 1st the engine of a freight train on the Chicago, Milwaukee & St. Paul road was thrown from the track at Beaver Dam, Wis., by a misplaced switch.

On the morning of the 6th four cars of a freight train on the Boston & Albauy road were thrown from the track in the Boston yard by a misplaced switch.

On the morning of the 9th a freight train on the Cleveland, Lawain & Wheeling road was thrown from the track and wrecked near Massillon, O., by a misplaced switch. The engineer and fireman were killed and three other trainmen hurt.

The engineer and median water amen burk.

On the afternoon of the 13th the engine and one car of a passenger train on the New York Central & Hudson River road were thrown from the track in Hudson, N. Y., by a misplaced switch.

On the afternoon of the 14th several cars of a freight train on the Cincinnati, Hamilton & Dayton road were thrown from the track in Glendale, O., by a misplaced switch.

thrown from the track in Glendale, O., by a misplaced switch.

On the morning of the 15th a freight train on the New York Central & Hudson River road ran over a misplaced switch and upon a stding leading out over a coal trestle. Before the train could be stopped the engine ran off the end of the trestle and fell 12 ft. with a number of cars on top of it. The engineer was killed.

On the night of the 16th the engine and four cars of a freight train on the Raleigh & Gaston road were thrown from the track at Franklinton, N. C., by a misplaced switch. The engineer and fireman were hurt.

On the morning of the 23d a passenger train on the New York, Pennsylvania & Ohio road was thrown from the track at Red House, Pa., by a misplaced switch. The tender and two cars were badly broken and 5 passengers slightly hurt.

der and two cars were badly broken and b passengers slightly hurt. On the night of the 23d the engine and six cars of a freight train on the Mobile & Ohio road were thrown from the track at Waynesboro, Miss., by a misplaced switch.

MALICIOUS.

On the morning of the 19th a freight train on the Mobile & Ohio road was thrown from the track near Meridian, Miss., where a rail had been taken from its place, the fastenings having been removed by some persons unknown, whose intention probably was to plunder the expected wreck. The engine and 7 cars left the track, but little damage was done.

UNEXPLAINED.

UNEXPLAINED.

Very early on the morning of the 3d a freight train on the Indianapolis & St. Louis road ran off the track near Vermillion, Ill., blocking the road several hours.

Very early on the morning of the 3rd the engine and eight cars of a freight train on the Texas & Pacific road ran off the track at Colorado, Tex., and two cars were wreaked.

wrecked.
On the moring of the 6th 15 cars of a freight train on the Chesapeake, Ohio & Southwestern road ran off the track near Kerrville, Tenn., and were wrecked, injuring a brake-

On the morning of the 7th the engine of a passenger train on the Boston & Albany road ran off the track near Winchendon, Mass., and upset down a bank.

On the morning of the 8th a yard engine on the New York Central & Hudson River road ran off the track in the passenger station in Buffalo, N. Y., tearing up part of a

passenger station in Dunaio, ...
platform.
On the night of the 9th the engine and three cars of a freight train on the Oregon Railway & Ravigation Co.'s road ran off the track near the Dalles, Oregon, doing some

damage.

On the morning of the 10th five cars of a freight train on the New York Central & Hudson River road ran off the track in Buffalo, N. Y., and were wrecked.

On the morning of the 10th several cars of a coal train on the Central Railroad of New Jersey ran off the track near Brill's, N. J., and were wrecked.

On the morning of the 11th several cars of a freight train on the Eastern Railroad ran off the track in Kittery, Me., and four of them were wrecked.

On the morning of the 11th 40 cars of a coal train on the

very early on the morning of the 21st are of a regist train on the Philadelphia and knocked a corner out of an adjoining building.

On the morning of the 23d a freight train on the Utah & Northern road ran off the track near Dillon, Utah. The fireman was hurt.

On the evening of the 23d the tender of a ballast train ran off the track in Rochester, N. Y., on the New York Central & Hudson River road.

On the evening of the 23d a car of a switching passenger train on the Pennsylvania Railroad jumped the track in the Philadelphia yard.

On the afternoon of the 25th a car of a freight train on the Addison & Northern Peansylvania road ran off the track near Addison, N. Y., and upset.

On the evening of the 25th a freight train on the Louisville & Nashville road ran off the track near Dobson, Tenn., and the engine and two cars were badly broken.

On the morning of the 26th a car of a circus train on the New York Central & Hudson River road ran off the track in Albion, N. Y., and was slightly damaged.

On the afternoon of the 27th two cars of a freight train on the New York Central & Hudson River road ran off the track near Fairport. N. Y., blocking one track two hours. Very early on the 28th a construction car attached to a freight train on the Missouri, Kansas & Texas road jumped the track near Waco, Tex. Two laborers jumped from the car; one was killed and the other badly hurt.

On the morning of the 30th a New York, West Shore & Buffalo passenger train ran of the track on the Pennsylvania Railroad road in Jersey City, N. J. The engine was thrown diagonally across the opposite track and the baggage car upset. The express messenger was hurt.

On the atternoon of the 31st the engine of a freight train on the Pennsylvania Railroad road in Jersey City, N. J. The engine on the Missouri Pacific road ran off the track in St. Louis, to the Pennsylvania Railroad road in Jersey City, N. J. The engine on the Pennsylvania Railroad ran off the track near Kinzer, Pa., and were wrecked, blocking the road all night.

OTHER ACCIDENTS BOILER EXPLOSION.

On the evening of the 20th, as a passenger train on the Northern Central road was near Parkton, Md., one of the tubes of the water-grate exploded. The escaping steam and water rushed out into the cab, carrying burning coals with them, and the force of the explosion threw the fireman over the tender and upon the other track, injuring him badly.

On the morning of the 14th the engine of a freight train

BROKEN CONNECTING ROD.

On the morning of the 14th the engine of a freight train on the New York, Lake Erie & Western road broke a coupling rod when near Binghamton, N. Y., and was considerably damaged.

On the afternoon of the 20th the engine of a passenger train on the New York, Lake Erie & Western road broke a coupling rod when near Jersey City, N. J., and the loose end tore out one side of the cab.

On the morning of the 28th the engine of a passenger train on the New York, Lake Erie & Western road broke a coupling rod when near Goshen, N. Y., and the loose end tore out one side of the eab.

On the afternoon of the 30th the engine of a freight train on the New York, Lake Erie & Western road broke a coupling rod when near Port Jervis, N. Y., and the loose end tore up one side of the engine.

couping rod when hear Port Jervis, N. 1., and the loose end tore up one side of the engine.

MISCELLANEOUS.

On the night of the 9th, as a freight train on the Norfolk & Western road was near Nottoway Court House, Va., a truck broke under a freight car near the middle of the train and one axle of the truck was, with the wheels, thrown out from under the car and left by the track. The car did not leave the track, although it was dragged three miles before the accident was discovered.

On the afternoon of the 10th a draw-bar broke between the tender of a freight train on the Pittsburgh Southern Division of the Baltimore & Ohio road near Washington, Pa. The Division Superintendent, who was riding on the engine, fell on the track and was killed.

On the night of the 21st a passenger train on the Baltimore & Ohio road struck a heavy timber which had been left projecting from a siding in Wheeling, W. Va. Two cars were scraped all along the sides and three passengers cut badly by broken glass.

On the night of the 22tl an axle broke under the express car on the Atchison, Topeka & Santa Fe road near Wakarusa, Kan. The car did not leave the track, but the train was delayed some time.

Oa the afternoon of the 27th a car of a freight train on the New York Central & Hudson River road caught fire when near Waterloo, N. Y., and was destroyed.

SUMMARY.

This is a total of 144 accidents, in which 42 persons were killed and 136 injured; an increase of 5 accidents, but a decrease of 4 killed and of 86 injured, as compared with August, 1882. The month of August has usually made a very unfavorable showing, and this year is no exception, although there is

some improvement over last year.

The eight months of the current year to the end of Augustian show a total of 1,074 accidents, 330 killed and 1,148 in snow a total of 1,074 accidents, 550 killed and 1,145 injured; a monthly average of 134 accidents, 40 killed and 144 injured. August was above the average in the number of accidents, above it also in killed, but slightly below in injured. There were no notably fatal accidents during the

Northern Pacific Nomenclature.

ning of the 11th several cars of a freight train an Railroad ran off the track in Kittery, Me., the opening of a new trunk line across the continent augment were wrecked.

In a continent augment of the 11th 40 cars of a coal train on the great divisions of Northwestern territory traversed by the

Central Railroad of New Jersey ran off the track in Phillipsburg, N. J., and 14 of them were completely wrecked. A brakeman was hurt.

On the evening of the 11th five cars of a coal train on the Central Railroad of New Jersey were thrown from the track and while the names. Minuesota, Dakota, Montana and Idaho are indigenous words, musical in sound-and-poetic in significance, and while the noble mountains of the Caecade Range would have supplied many an Indian name to complete the series, it is emineutly proper that the most remote quarter of the Onio Central road ran off the track in Columbus, O., and were wrecked.

On the morning of the 13th the engine of a passenger train on the Louisville & Nashville road ran off the track at Stanford Junction, Ky., blocking the road an hour.

On the afternoon of the 14th a passenger train on the Toledo, Cincinnati & St. Louis road ran off the track near St. Johas, Ind., and 5 laborers were hurt.

On the morning of the 17th a car of a construction train on the Lake Shore & Michigan Southern road ran off the track near St. Johas, Ind., and 5 laborers were hurt.

Very early on the morning of the 23d a freight train on the Philadelphia and knocked a corner out of an adjoining building.

On the evening of the 23d a freight train on the Utah & Northern road ran off the track near Dillon, Utah. The fireman was hurt.

On the evening of the 23d a freight train on the Utah & Northern road ran off the track near of a ballast train ran off the track in Rochester, N. Y., on the New York Central & Hudson River road.

On the evening of the 23d a freight train on the Vennsylvania Railroad jumped the track in the Philadelphia yard.

On the evening of the 28d a car of a switching passenger arian on the Pennsylvania Railroad jumped the track in the Philadelphia yard.

On the evening of the 28d a car of a freight train on the Pennsylvania road an off the track in the Philadelphia yard.

Billings, honest McGregor, refined Livingston, hardy Richardson, humble Hathaway, and laconic Sims.

There are a few characteristic names in Montana, such as Big Horn, Rosebud and Missoula, and several artificial French derivatives in Idaho, such as Pend d'Oreille and Cœur d'Alene, but the choicest flowers in the nomenclature of this new continental route are to be culled in Washington Territory. The earliest settlers on the coast set a bid example in naming a fur-trading station after an enterprising merchant on Manhattan Island and poaching upon classic preserves in calling the capital Olympia, and subsequent map makers have bestowed the honors of majestic mountain masses with lavish hand upon the Hoods, Bakers and Raniers. Theodore Winthrop, in his stirring narrative of his ride from Vancouver's Island to the Columbia, made many an indignant remonstrance against the recklessness with which the water-courses and snow-capped summits were being mismand. He would not consent to swriftee the Scandinavian flavor of the expressive word Whulge, and in the name of a critical world sternly demanded why the title of Puget should be "saved from Lethe" and given to "a vast flord parting rocks and forests primeval with a mighty tide." He insisted that a magnificent mountain should not be insulted with the insignificant name of a single undistinguished biped known as Baker, but should be honored with the more imposing title of Kuishau, which he had learned from the Lummi tribe at its base. The vulgar appellations against which he inveighed have unfortunately prevailed to a large extent. The sound is known as Puget, and the Cascade giants are without honor in the tongue of the white man. But Tacoma, a beautiful Indian word signifying a mountain summit crowned with snow, has been retained not only in the terminus of the Northern Pacific.

The "pasaiooks," as the Yankee invaders in Washington were called in the Chinook jargon, have shown greater

cascages, out on the coast, where it gives the name to the terminus of the Northern Pacific.

The "pasnicoks," as the Yankee invaders in Washington were called in the Chinook jargon, have shown greater reverence for the beauties of Indian nomenclature than the unimaginative settlers and plodding immigrants in the great territories eastward in the direction of Lake Superior have displayed. Wallulah, Wakima, Steilacoom, Newaukum, Okinakane, Walla-Walla, Nisqually, Kalama, Seattle, Whatcom and many other names are a heritage from the Klickatats, Shoshones, Klalams and other tribes which once tenanted the shores of Whulge and were content to call every mountain landmark a Tacoma. There are a few French names along the Columbia, for some of the early trappers who sold their furs on the coast and explored the interior were of that nationality. They gave a name to the Dalles, one of the most remarkable freaks of nature in the territory, and a very inadequate word it was. The great falls of Spokane, however, have as legitimate, if not as musical, an Indian name as Niagara.—

New York Tribune.

Contributions.

Crossing the Main Range of the Rocky Mountains.

Northern Pacific Railroad. Rocky Mountain Divisio

TO THE EDITOR OF THE RAILROAD GAZETTE :

The location of the Northern Pacific Railroad over the main range of the Rocky Mountains presented one of the most important problems on the whole road.

Mullan Pass is the lowest pass available and is about 5,774 ft. above tide-water. By a tunnel 3,850 ft. long the elevation of the summit is reduced to 5,548, and the total ascent from "Teo Mile Creek," two miles west of Helena, to the summit is 1,668 ft.

The distance by the most direct valley is about 13 miles.

It was desirable to use a maximum grade not exceeding 116 ft. per mile. In running a line eastwardly down from the proposed tunnel along the most obvious route very consider. able detours were required in order to cross the deep valleys making down from the mountain side.

One crossing of 221 ft, high being much the most formida-ble of all, surveys were made with a view of crossing the valley nearer its source, but very serious difficulties were

At length the idea was developed of turning backward alons a slope which is not very steep until the bottom of the main valley was reached. This scheme turned out favorably, and by lengthening the line about 3,000 ft. the cost of construction was reduced over \$250,000.

The accompanying diagrams make the subject plain than any description.

The scenery along this part of the line is exceedingly in-teresting, abounding in great contrasts and pleasant sur-prises. There are no doubt some wilder and more imposing views on some of the less frequented railroads, but it is doubtful if any of the great thoroughfares of the country can convey more pleasurable emotions to the mind of travelers.

J. T. Dodge, Division Engineer.

Ten-Wheel Freight Locomotive by the Brooks Locomotive Works.

The double-page engraving and smaller cuts given this week illustrate a ten-wheel freight locomotive built by the Brocks Locomotive Works at Dunkirk, N. Y., which formed part of the exhibit made by those works at the Chicago Exposition of Railway Appliances. The specifications furnished by the builders for this locomotive are as follows:

GENERAL SPECIFICATION FOR A STANDARD-GAUGE TEN-WHEEL LOCOMOTIVE.

The.—Ten-wheel pattern.
Gauge.—4 ft. 8½ in.
Cylinders.—19 in. diameter; 24 in. stroke.
Driving Wheels.—Six in number, 55½ in. diameter outside of

Driving Wheels.—Six in number, 55½ in. diameter outside of tire.

Tires.—Flanged, 49½ in. inside diameter; 5½ in. wide, 3 in. thick; forward pair without flange, 6 in. wide.

Boiler.—Wagon-top style. M.de of Otis homogeneous cast steel. Diameter at smoke box end 52 in. Thickness of plates, 7-16 in. Flue sheet, ½ in.

Fire Box.—Sloping. Made of Otis homogeneous cast steel, 96 in. long, 34 in. wide at grate, 4N in. wide at crown sheet. (7 in high at thue sheet. Thickness of plates, side and door sheets, 5-16 in.; crown sheet, ½ in.; flue sheet, ½ in. Water space, 3 in. sides and back; 4 in. tront.

Ash Pan.—Suitable for the fuel, double dampers operated from the footboard ating Surface.—Fire box, 128.41 square feet; flues, 1,422.40 re feet; total heating surface in boiler, 1,550.81 square

weights.—Weight of engine empty, 84,300 lbs.; weight gine in working order, 94,500 lbs.; weight on drivers in wo g order, 73,100 lbs.; weight on engine truck in working order, 400 lbs.

Adolbs. Toniage.—This engine will haul in addition to the weight of rigine and tender, the track being in good condition and compare and tender, the track being in good condition and compare and the grade, 522 gross tons; on a 40-tt. grade, 522 gross tons; on a 40-tt. grade, 523 gross tons; on a 60-ft. grade, 321 gross tons; on a 100-ft. grade, 321 gross tons, and on a 100-ft. grade, 321 gross tons.

Andrew Carnegie on the Prospects of the Rail Mills.

The following report of an interview between Mr. Andraw Carnegie and a reporter of the New York Tribune deserves attention as giving the opinion of an uncommonly sagacious man who has been in England so long that he may be supposed to be exceptionally well informed concerning the condition of the iron industry there as well as here.

A Tribune reporter called one evening last week upon. Andrew Carnegie, who recently returned from Europe. Mr. Carnegie was found in his rooms at the Windsor Hotel,

"No, not yet. It will no doubt be a factor of great im portance in the future. At present it is not. The life of a steel rail is five times that of an iron rail, and that is five years. Now, the percentage of steel rails in use longer than five years is quite small. The steel rail has entirely taken the place of the iron rail in the United States, and yet at present, in spite of the superiority of the steel rail, it is actually cheaper than the iron rail. The depression in the former is not due to reduced consumption, for in spite of the times this year's consumption will be about a million and a half tous. This fearful depression is caused by the increase in the capacity of works generally, as I stated before. As an instance, take our own works in Pittsburgh, built in 1875 for a production of 25,000 tons. This year we produce more than 150,000 tons."

"What is the present price of steel rails?"

"About \$37, per ton at the mill."

"Can steels rails be manufactured at a profit at that price?"

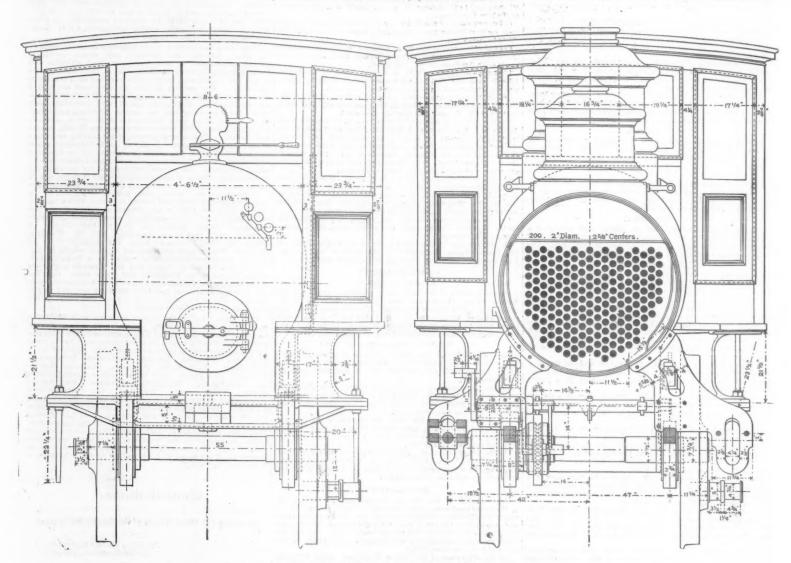
"Speaking generally, no. There may be one or two

price?"
"Speaking generally, no. There may be one or two
mills owning their raw materials—mark that, owning their
raw materials—that may make fractional profits at that
price."

price."

"How about the laborers employed in steel and iron?"

"Out of the twelve steel mills two have recently had disputes with their men, and the works have been stopped in consequence. Labor is all that the workingman has to



TEN-WHEEL LOCOMOTIVE AT THE CHICAGO EXPOSITION

Flues.—Lap-welded iron, 200 in number, 2 in. outside diameter, 13 ft. 9 in. long. Set with copper thimbles at fire box oke Stack.-Diamond pattern. Outside sheets made of Otis

Smoke Stack.—Diamond pattern. Outside sheets made of Otis steel.

Axles, Driving.—Hammered iron. Journals 7½ in. diameter, 8 in. long.

Axles, Engine Truck.—Hammered iron. Journals 4½ in. diameter, 10 in. long.

Axles, Tender.—Hammered iron. Journals 3¾ in. diameter, 7 in. long.

Makets, Lenter.

Mheels, Engine Truck.—28 in., spoke. Made by Davenport, Fairbairn & Co., Erie, Pa., Wheels, Tender.—30 in., M. C. B. Standard. Made by Davenport, Fairbairn & Co., Erie, Pa., Crossheads.—Cast steel. Made by Chester Steel Castings Co., Crester Be.

Crossheads.—Cast steel. Made by Chester Steel Castings Co., liester, Pa.

Crossheads.—Cast steel. Main bearing, 4½ in. diametr. A½ in. long; side-rod wrist, 3½ in. diameter, 3½ in. long. Stude Bars.—Hammered iron, case hardened.

Inks.—Hammered iron, case hardened.

Inks.—Hammered iron, case hardened, forged solid.

Iced Water.—Two No. 9 Friedman non-lifting injectors. Steam Gauge.—6¾ in. dial. Made by Crosby Steam Gauge & a ve Co., Boston, Mass.

Headlight.—23 in. Made by Post & Co., Cincinnati, Ohio. Cylinder Packing.—Dunbar's patent.

Safety Valves.—Two, 3 in., Kunkle patent lock-up valves. Made y E. B. Kunkle, Fort Wayne, Ind.

Springs, Driver.—Made by A. French & Co., Pittsburgh, Pa.

Springs, Engine Truck.—Made by A. French & Co., Pittsburgh, 1.

A. rings, Tender.—Made by National Car Spring Co., New York.

2 Co., Pittsburgh, York.

2 Co., Pittsburgh, York.

Trik.

Tender.—Eight wheel, forward truck centre-bearing, rear truck centre and side-bearing. Frame of oak, well braced; outside sills oound with iron.

Tank.—Capacity 2,880 gallons water. Top and bottom plates, No. 5, rides, No. 6 fron (made by Reading Iron Co., Reading, Pa.), with anegl-iron corners, well braced.

Wheel Base.—Driving wheels, 14 ft. Engine, 25 ft. 3 in. Engine and tender 45 ft. 7 in.

Brakes.—Hand brakes on both tender trucks.

Grate.—Area, 22.58 square feet.

and upon being asked for his opinion of the condition and prospects of the steel and iron trade, he said:

"I think this: I consider that the whole world is taking a rest at present after a period of unusual activity. During this period manufacturers generally increased the capacity of their works greatly. They are now sufficient to supply the whole world, were it as abnormally active as it is the reverse. But as great loss is entailed by curtsliment of production, the works are kept running to their full capacity, although prices have fallen to figures which leave even those manufacturers who have unusually favorable facilities little or no profit, and entail a positive loss upon the average manufacturer. It is the same in England as here. One of the largest miners of coal in the world told me last month that ecould only figure a profit of four cents per ton upon the coal mined by his firm. In the steel-rail manufacture the same condition of affairs exists, and the great woolen and cotton weaving houses are scarcely in better circumstances."

"Is this depression likely to continue long?"

"In my opinion no revival can take place before next spring. Much as I regret to say it, I believe that matters will grow worse for some months before manufacturing iterests can reach a profitable business. A much more decided curtalliment of production must take place before the can be any improvement. This will be brought about naturally by the prevalence of such ruinous prices as will compel manufacturers to stop producting glords in advance of the country's needs."

"Has the change from iron to steel rails, and the consequence except on the ward of the united way lines as to be felt by manufacturers?"

"Has the change from iron to steel rails, and the consequence of such ruinous prices as will compel manufacturing firms of this country sound, or do you fear a panie!"

"Has the change from iron to steel rails, and the consequence of such ruinous prices as will consider the manufacturing firms of this country sound, or do y

What the Public has to Gain by Combinations to Maintain Rates.

In a letter written to the editor of the St. Louis Globe-Democrat in reply to an editorial regarding freight diver-sions, published in that paper, Mr. Albert Fink says:

Please bear in mind that in making diversions of freight from one road to another the companies recognize their duty to give the same facilities and pronoptness over the road to which the freight has been diverted as would have been given over the road originally selected by the shipper. Therefore, the service performed being the same over each route, and the charges for the service also being the same, there can be no good reason why the shipper should have any preference for one route over another. He might be prejudiced against one road. But a sensible business man does not usually spend money on account of his prejudices; but if he wants to pay more simply to gratify his prejudice he receives value for his money and has no cause for complaint against the railroad companies. As a rule, it may be inferred that, if a shipper insists upon shipping over one particular route when other routes render the same service, be has some substantial reasons for doing so in the shape of lower rates; and the object of diverting freight is to break up this favoritism Please bear in mind that in making diversions of freight

oritism, by which a few men are often enabled to monopolize trade and curich themselves at the expense of the many. The majority of the railroad managers are opposed to and condemn these practices, and are exceedingly anxious to conduct their business in an honorable and business-like manner. For that reason they associate and establish rules for their mutual protection against those who will not carry out their agreements and obligations in good faith. To remove the motive for cheating, and to discover and bring to light the offenders and to put a stop to their objectionable practices, the system of "pooling" and diverting freight has been devised.

The courts, instead of interfering with these practical methods, the adoption of which results so clearly to the best interests of the public, as well as of the railroad companies, without encroaching upon the rights of any one, should sanction and sustain them, and should enforce agreements between the companies as far as they are beneficial to the public, the same as other agreements or contracts are enforced. At present the railroad companies have to battle with these questions as best they can, without the support of the law, and without even the support of public opinion. They are blamed for unjust discriminations, and again, when they associate to stop the evils complained of, they are blamed for combining. This inconsistency arises from the fact that the public is not sufficiently informed to discriminate between combinations which are made for the purpose

The road runs through Brownsville, where it strikes the famous slate quarries at that place. It is laid through a good country for traffic, and as the iron works furnish from 4,000 to 5,000 tons down freight, and nearly as much up in the way of supplies, it is likely to be a paying property. The rails are second-hand, weighing from 45 to 56 pounds per yard, and were bought at the price of old rails. We well remember the time when 6, 8, 12 and 14 mule teams were the only means of conveying the slate from Brownsville or the iron from the Katahdin Iron Works to Bangor. The distance, we believe, was about 40 miles, and it was no uncommon thing in winter to see stacks of pig iron scattered all along the road, where teams on account of the heavy roads, had been obliged to unload and stack a portion of the iron with which they started. A portion of the old road was of the most abominable character, and how wagons or teams stood it is unaccountable. We know of many miles which were laid in cordural across swamps, and though a pretense of covering the logs with earth had been made, the logs themselves were only too plainly visible. The railroad opens a charming country, and will probably be one of the very best investments of the day for those fortunate enough to possess stock.—Iron Age.

Raising a Sunken Locomotive.

ses stock.—Iron Age.

Raising a Sunken Locomotive.

The work of raising the sunken locomotive at Bayou Sara has been going on for nearly a week, the contractors being directed by Mr. M. S. Belknap, the Superintendent of the road, who is, as is well known, a thoroughly competant engineer. The method pursued is the sunken-barge plan. Two large barges have been placed over the locomotive, the latter lying in about 20 ft. of water. From these barges four heavy chains pass beneath the machine and are fastened. The barges are then flooded until the water is up to the gunwales. Then, by tightening the chains and by pumping the water from the barges, the engine is lifted from the mind.

ing the water from the barges, the engine is litted from sue mind.

This process was in operation yesterday, when one of the chains, 1½ in. in diameter, broke, and the locomotive sank back into the hole it had made for itself in the bottom of the bayou. Another and larger chain has been obtained, and the litting process will be continued to-day. Mr. Belknap thinks the best plan will be to lift the locomotive clear and then carry it, suspended in the water, to the eastern shore of the river just opposite the city. There it can be raised until a large barge can be floated beneath it. By this process it is believed the machine can be speedily elevated to the surface and so brought to the shops where, under the the skillful manipulation of Mr. Adair's great force of machinists, she will soon be put in a condition to resume active duty in the service of the Louisville & Nashville Co.—Mobile (Ala.) Register.

A Narrow Escape.

A Narrow Escape.

A Narrow Escape.

There was a very narrow escape from a terrible accident on the Caval railroad at an early hour Sunday morning. The night freight from New Haven was thundering down the steep grade near Westfield when the engineer saw through the dense fog that the dry bridge over the Pond Hollow road was in flames. The speed of the train and the steepness of the grade left no hope of stopping it, so the throttle valve was thrown open, and the train rushed wildly, but safely, over the burning timbers. One or two of the cars were derailed, but the couplings held, and they were carried across in safety. On investigation it was found that several feet of the ties and stringers of the bridge were almost wholly consumed, and the rails red hot. Had the train passed a little later a fearful accident could not have been avoided, as the bridge is some 50 ft. above the highway, and the timbers would have been burned through and unable to stand the slightest strain. A gang of men worked all Sunday repairing the bridge, and yestorday trains were running over it as usual. The fire was probably caused by sparks from the engine of the northward-bound passenger train Saturday night, and must have been slowly burning for several hours.—Springfield (Mass.) Republican, Sept. 25.

Attempts at Train Wrecking.

A dispatch from Cowan, Tenn., Sept. 22, says: "An attempt was made yesterday to wreck the accommodation train leaving Nashville at 4.15 a.m. A cross-tie was placed on the track between Estill Springs and Decherd, but owing to the vigilance of the engineer the disaster was averted. The miscreant has not yet been apprehended."

A School for Superintendents.

A School for Superintendents.

In a familiar talk, recently, Col. Joseph Hill, Superintendent of the Vandalia, dropped the remark that eight of his boys were now superintendents of railways. The railroad reporter of the Journal, catching on to the remark, asked for an explanation. He then went on and gave the names of eight railroad superintendents who commenced under him their railroad superintendents who commenced under him their railroad life, as follows: J. G. Metcalf, Superintendent of the Louisville & Nashville main line; James Leonard, Superintendent of the Anderson, Lebanon & St. Louis, and also Receiver of the road; D. T. Bacon, Superintendent of the Southern Division of the Toledo, Cincinnati & St. Louis road; J. Riser, Superintendent of the lowa Division of the Chicago & Northwestern road; George Hurd, Superintendent of the New York & New England road, Eastern Division; W. H. Hartman, Superintendent of the Wheeling & Lake Erie; W. G. Sala, Superintendent of the Chicago & Indianapolis Air Line, and George Stevens, Superintendent of several divisions of the Wabash system. Messrs. Sala and Stevens commenced with him as office boys.—Indianapolis Journal.

How the "Golden Spike" Was Driven.

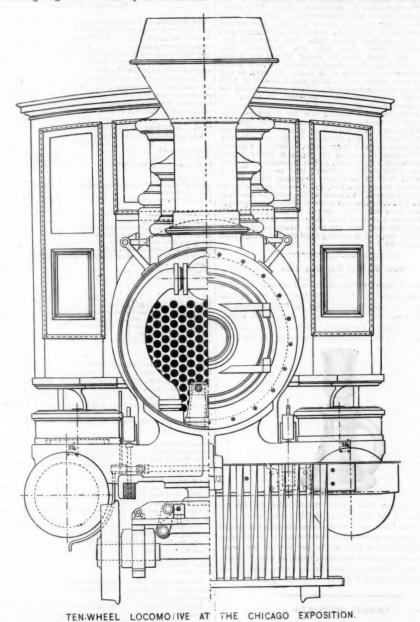
Also please bear in mind that there are no restrictions impose of extortion, the preconceived idea being that all posed by the so-called "pool" agreements upon any milecation of the company to prevent it from making analyty that these reductions abail not be under secretly; if made, they shall be the totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall not be under secretly; if made, they shall be totion shall companies and shall company openly in the continents of the different railroad companies.

Perhapt the discussion which has taken place since the injurious and unlawful practices, the shall companies the different railroad companies.

Perhapt the discussion which has taken place since the injurious and unlawful practices and the shall companies to be derived by the associated railroad companies in fixed by the supposed by diverting freight to put a stop to these injurious and unlawful practices.

The SCRAP HEAP.

The shall be shall be shall be shall be shall be shall be shall as the proper shall be shall be shall as sight of the suppositions gold. When the President Villard and the baby, Henry Villard and the passing the methods adopted by the supposition and the proper shall be shall assign to the suppo



and unjust discrimination and to have all shippers pay the same rate for the same services.

Also please bear in mind that there are no restrictions imposed by the so-called "pool" agreements upon any railroad company to prevent it from making as low rates as it thinks best. The restrictions imposed are simply that these reductions shall not be made secretly; if made, they shall be made alike to all shippers. Let the railroad company openly give notice of the reduction, and then no one has a right to object, as all competing roads can adopt the same rates if they choose. The making of low rates secretly to one or a few shippers, while others pay higher rates, is not only unjust in itself, but is unlawful, and it is proposed by diverting freight to put a stop to these injurious and unlawful practices.

You inquire whether it is necessary that these diversions

dent Henry Villard, ex-President Frederick Billings, Mrs. Henry Villard, Mayor Harrison of Chicago, Mrs. Frederick Billings, William M. Evarts, Carl Schurz, General Grant. Who further punished the spike, history may never accurately record. Mr. Villard assisted his little child to touch the handle of the hammer, as the utmost his youngest child could do toward building the road. The squabble for place prevented any one from accurately keeping track of subsequent proceedings over the spike, even if they were important. Then came the locomotives, each hauling a train. The western engine was handsomely decorated. A shield bordered by an evergreen wreath was borne under the head lamp, with the words, "St. Paul, Minnesota, to Portland, Oregon," printed upon it. The engine from the east carried only a few small flags. When the cow-cathers touched, as they were made to do with great skill on the part of the engineers, the latter went forward and shook hands. Cannon sent their booms out among the mountain peaks, declaring to the rocks and the forests that the iron band was welded.—Northern Pacific Correspondence New York Post.

Experiments with the Loughridge Brake.

Experiments with the Loughridge Brake.

Mr. Wm. Loughridge, of Baltimore, the well-known inventor of car brakes, yesterday tested a new method of governing the force applied to the brakes of a car, so as to avoid the sliding of wheels while retaining full braking power on light or heavy cars. The experiment was tried at Mount Clare shops of the Baltimore & Ohio Railroad, and was highly satisfactory. A passenger car and a coal hopper, equipped with the improved apparatus, were stopped at distances averaging within 150 feet when running at 20 miles per hour. The apparatus consists of a coil spring or fixed power attached to the brake-chains and connected by a rod with a stop-wheel at the platform floor. The spring is set at any desired pressure, and when that is reached the stop-wheel locks automatically, and no more can be applied. The apparatus can be applied to air as well as hand brakes. Mr. Loughridge is engaged on ten other improvements in brakes, and is afforded every facility by the Baltimore & Ohio Co.—Baltimore Sun, Sept. 21.

A Horse Car Incident.

A Horse Car Incident.

The time was midnight and the situation near the World office. The man was fearfully and wonderfully full. He walked up to the fire-alarm signal-box and placed a nickel in it. Then he sat down on the curb.

"Why don't the car start?"

He received no answer.

"Why don't the car start?"

Still no answer.

"Gimme back me fare, then!"

It was not returned.

"Gimme back me fare, then!"
It was not returned.
Then he jumped up, grabbed the telegraph pole around the waist, and attempted to trip it up. There was a spirited tugging for several seconds, and then he made a terrific kick at the "feet" of his adversary, and the result was that be kicked himself over on his own head.

As he excutivized himself he moved off, saying:
"Yer a smarter conductor than I thought yer wuz, but I believe now that I'd a throwed yer if yer coat hadn't come off."—New York World.

Tree Planting on the Northern Pacific.

Tree Planting on the Northern Pacific.

The annual report of the Northern Pacific Co. says: "Progress in the tree-planting department was somewhat delayed by the death of the Superintendent, Leonard Hodges, which occurred last spring. His successor has now the work well in hand, and it is going forward in a satisfactory manner. The first work was done in the spring of 1882, when the sod was broken. Back setting was done in the fall, and the trees planted last spring. Some replanting will be required. At Steele and Tappan, where the ground had been previously cultivated and was found to be in good tilth, the growth has been most extraordinary, exciting comment from all who have seen it, and demonstrating conclusively that the soil and climate are well adapted to tree culture. Some of the cottonwoods planted last year in the nursery at Steele are already over 8 ft. in height, and the box elders grown from seed planted last year have attained a height in some places of over 3 ft., and are in a flourishing condition. The operations of the season have demonstrated that the first essential to successful tree plantation is thorough pulverization of the soil, and that it is better to wait a year longer before putting in the plants in order that the weeds and grass may be thoroughly subdued, the sod thoroughly rotted, and the mold finely pulverized. When these conditions exist, with a fair amount of care subsequently, success seems certain."

The Northern Transcontinental Survey.

The Northern Transcontinental Survey.

The annual report of the Northern Pacific Co. says: "The very valuable work of the Northern Transcontinental Survey under Prof. Raphael Pumpelly, Director, and assistants, was continued during the year with excellent results. On the Pacific Coast, Assistant Bailey Willis has outlined the boundaries of the Wilkeson coal field in Western Washington, already extensively worked, and has discovered two new fields, lying near the Wilkeson field at the base of the Cascade Mountains. One of these, on Evans Creeks, has an area of eight square miles, with veins 20 ft. thick. The other, extending along Mishall Creek to the Ni-qually Valley, has not yet been fully explored, but already exhibits veins 25 ft. thick. The quality of the coal is b-tier toan that of either of the mines n-w worked in the Wilkeson region, comparing well with the steam coals of Cumberland, Md. In Montana, the survey of the coal field near the Bozeman Tunnel has been completed by Assistant George H. Elfridge, and the existence of considerable veins of true bituminous coking coal established. Extensive d-posits of a high grade of lignite, valuable for locomotive and zeneral use, h-we been found in the Buil Mountains, near Billings. Explorations between the Yellowstone Valley and the Great Falls of the Missouri have resulted in the discovery of many thin veins of coal, valuable for local use, and of outcroppings of a 9 ft, vein of bituminous coal of high heating power. Within four miles of this coal a vein of magnetic iron ore was found. This is the only point in the United States where magnetic ores and coal exist in close proximity.

"Satisfactory progress has been made in the departments of the survey d-voted to topography, plants, soils, climate and riv rs. The topographical parties are now giving especial attention to the examination of valleys in Montana which offer facilities for irrigation, by the concurrence of areas of fertile land and abundant water. Definite information will be obtained as to the amou

gions in Eastern Washington, for the purpose of ascertain-sing their value for settlement. The reports of the scientific gentlemen forming the party show that large areas of sur-face now unoccupied can profitably be cultivated, without irrigation; indicate practical and inexpensive modes of irri-gating extensive fertile districts where the rain-fall is not sufficient for crops; and point out methods of neutralizing alkali where that element is present in the soil in too large proportions for successful farming."

Railroad Ties in Mexico.

Railroad Ties in Mexico.

The following is from a paper on the Mexican Railway (Vera Cruz to the city of Mexico), recently read before the Institute of Civil Engineers for Ireland:

"The sleepers used are 9 ft. long by 10 in. wide by 5 in. thick, and are laid at a general distance of 3 ft. from centre to centre, but close together at the joints. The selection of suitable wood for sleepers has occupied much attention. Good well creosoted Baltic sleepers have been tried on a large scale and found to become decayed and useless at the end of about four years. Hard, strong oak sleepers, obtained in the country, have also been tried in large quantities, and found not to last more than three to four years. The timber of both the Baltic and oak sleepers seemed to undergo a rapid change and become quickly converted into a dry spongy consistency. There was no appearance of insect ravages; the timber had evidently not been able to withstand the great beat or dryness of the atmosphere. The best wood yet discovered for sleepers is zapote. It is essentially a tropical timber, and is exceedingly durable for outdoor or indoor work above or below ground. The author has seen samples of this wood taken out of buildings said to have been erected more than two centuries ago, and certainly there was not the slightest sign of decay; the wood was as sound as the day it was put into the building. This wood, however, is very scarce and very expensive. In color it is nearly as dark as logwood. It is very heavy, and sinks in water, and is so hard that the boring of the holes for the spikes, and forming the grooves for the rails is very laborious work. It appears to be almost impervious to decay, but it has a tendency to split if exposed to the heat of a tropical sun for a few months. For this reason the gapote sleepers must be kept carefully covered with ballast. The next best quality of timber yet found in the country, and of which by far the greater number of the sleepers on the line are made, is sabino, a species of cedar. The general

New Style of Car Box Jack.

The above cut represents the latest improvement in jackscrews for hot boxes. It is manufactured by the Spring-field Foundry Co. in Springfield, Mass., and combines all the requisites of a car box jack, strength, durability, convenience and cheapness. The handle, the broad base and the notched cap are all new and valuable features, but the pecu-



liar advantages in these jacks, beside being by far the lowest in price in the market, is the ball-and-socket joint between the head and cap, which allows the latter to incline at any desired angle as well as to revolve freely; at the same time it is impossible for the cap to get lost off the head. These jacks are carried on passenger trains so as to be ready for instant use. Other information or prices may be ob-tained of the Springfield Foundry Co., Springfield, Massa-

ANNUAL REPORTS.

The following is an index to the annual reports of railroad companies which have been reviewed in previous numbers of the present volume of the Railroad Gazette: Page.

rage.	l'age,
labama Great Southern 478	Meadville495
Hegheny Valley 6 15	Mexican National478
liegheny Velley 6 15 lliance, N.les & Ash	Mexican Railway
shtabula & Pittsburgh49)	Michigan Central 279, 280
tchison, lopeka & Sauta Fe.7, 246	Milwaukee, Lake Shore & West, 395
tlanta & West Point	Missouri, Kansas & Tolias231
tiantie & Pacific 840	Missouri Pacific. 7
ugusta & Knozville356	Mobile & Girard 598
altimore & Potomac	Mobile & Girard
angor & Piscataquis 213	Morris & Essex
oston, Barre & Gardner 78	Nash., Chattanooga & St. L629
oston, Concord & Montreel366	Natches, Jackson & Col 196
outon & Lowell WR	New Castle & Beaver Vy 495
oston & Lowell	New Haven & Northampton 7
ur., Cedar Rapids & No908	New London Northern188
amden & Atlantic	N. Y. Cen. & Hudson River 7. 8
anada Southern 596	N. Y. & Greenwood Lake478
anadian Government Roads.218	N. Y., New Haven & Hartford, 22
entral Franch 951	N. Y., Ontario & Western197
entral Iowa	N. I., Onsario & Western
entral, of New Jersey8.3	N. Y., Penn. & Ohio218, 2:4 N. Y., Susquehanna & Western. 356
entral Pacific	Norfolk & Western
burdette Col & Assessed	Northern Central 128
hariotte, Col & Augusta 33	Northern Central
nes peake & Ohio138, 573	Northern (New Hampshire)3511
Heblife 000	Northwestern Ohio 196
HIUNKO & ALTON 185, 144	Ogdensburg & L. Champlain407
heshire nicago & Alton hicago, Bur, & Quincy 7, 19t, 230 hi., Mil, & St. Paul 78, 197, 268, 265	Ohio Central
ur" will of per Latti . 19" fat, 509" and	Ohio & Mississippi
hl. & Northwestern 543	Oregon Improvement Co278
hi . Rock Island & Pacific 840, 443	Oregon & Transcont. Co
hi. St. P., Minn. & Omaha 586	Pacific Mail Steamship Co478
hi. & West Michigan 575	Panama231
meinpati & Eastern 463	Pennsylvenia Company 494
incinnati, Ham. & Dayton 463	Pennsylvania & N Y 73
nomnati, N O. & Tex. Pac .30, 346	Pennsylvania Railroad150, 154
leve C. L. Cln. & Ind181, 183 leveland & Pittaburgh30, 495	Philadelphia & Reading
leveland & Pittsburgh39, 495	Phila, Wil. & Baltimore139
olumbia & Greenville	Pittsburgh, Cin. & St. Louis312
oneord	Pitts , Ft. Wayne & Chi 340, 495
onn. & Passumpsic Rivers 905	Pittsburgh & Lake Sirie 40

Connecticut River	Po
Delaware, Lacka, & Western122	Pro
Del., Lac. & W. Leased Lines 407	Ro
Des Moines & Fort Dodge362	Ru
Denver & Rio Grande362	St.
Detroit, Lansing & No629	St.
Erie & Pittsburgh	St.
Fitchhurg 40	St.
Flint & Pere Marquette262	St.
Georgia312, 574	Sav
Grand Trunk 59, 229	Slo
Hannibal & St. Joseph163	Sot
Hanover Junc., Han. & Gettybb.355	Sou
Hartford & Conn. Western 7	Sul
Houston & Texas Central 39	Sus
Huntington & Broad Ton 191	Ter
Huntingdon & Broad Top 121 Illinois Central	Tol
Indiana, Bloom, & Western,463	Un
Indianapolis & Vincennes495	Uta
International & Great No231 Jeffersonville, Madison & Ind495	Val
Jeffersonville, Madison & Ind495	Vei
Kentucky Central24% Lake Shore & Mich. So. 278, 298, 306	Vic
Lake Shore & Mich. 20.278, 298, 308	Vir
Lawrence	Wa
Lehigh Coal & Navigation Co., 135	We
Lehigh Valley	We
Long Island. 73	We
Louisville & Nashville510	Wi
Maine Central 21	Wi
Manchester & Lawrence895	Wo
Manhattan181	We
Massillon & Cleveland495	Yo

5	Portland & Ogdensburg 100	
8	Portland & Rochester100	
3	Providence & Worcester104	
7	Rochester & Pittsburgh 41	
2	Rutland511	
3	Rutland	
١	St. Louis, Iron Mt. & So167, 231	
5	St. Louis & San Francisco 197	
â	St. L., Vandalia & Terre Haute.246	
)	St. Paul & Duluth04	
3	St. Paul, Minn. & Manitoba 510, 836	
į.	Savannah, Florida & West812	
	Sloux City & Pacific 218	
3	South Carolina	
5	Southern Pacific598	
7	Sullivan County 427	
3	Sussex	
)	Terre Haute & Indianapolis362	
L	Texas & Pacific	
3	Toledo, Ann Arbor & Gd Trk 510	
3	Union Pacific164	
5	Utah Central246	
l	Valley, of Ohio 250	
i	Vermont Valley427	
3	Vicksburg & Meridian	
3	Virginia Midland100	
,	Wabash, St. Louis & Pac. 167, 180	
1	Warren407	
ķ.	Western R. R. Association 37	
1	West Jersey	
3	West Va. Central & Pittsburgh, 213	
•	Wilmington & Northern568	
L	Wisconsin Central629	
i	Woodstock	
l	Worcester & Nashua 40	
5	York & Peachbottom 355	

Northern Pacific.

At the close of its last fiscal year, June 30, 1883, the mileage received from contractors and worked by this company was 1,704 miles, against 1,298 miles at the beginning of the year, showing an increase of 406 miles. The mileage actually laid with track during the year is shown elsewhere.

The average mileage worked for the year was 1,497 miles, against 797 miles for the previous year.

The equipment at the close of the year consisted of 289 locomotives; 73 passenger, 2 chair, 8 dining, 16 sleeping, 7 emigrant sleeping, 5 observation, 2 combination, and 54 baggage, mail and express cars; 3,698 box, 560 stock, 10 refrigerator, 3,200 flat, 400 coal and 132 cabose cars; 7 business and pay cars, and 100 service and construction cars. Additions during the year are noted elsewhere.

The general balance sheet is an follows:

The general balance sheet is as follows:	
Liabilities Common stock Liabilities Common stock Fefrered stock \$51,000,000.00 Less canceled by land sales 9,250,536,10	£49,000,000.00 41,749,463.90
Funded debt: Missouri Division bonds outstanding \$2,388,600 Pend d'Orville " " 3,502,600 General first-mortgage bonds 33,631,000	
Accounts payable and advances on general mort- gage bonds Unmatured payments on contracts. Loans for construction purposes Coupons due, not presented Interest accrued, not yet due Net proceeds of land sales in preferred stock, bonds	7.662,501.92 2,600,600.89 5,452,981 76 6,741.50
and cash. Dividend scrip Profit and loss.	4.640.821.20
Total	164,059,237.65
Railroad, equipment and land. \$ Cash applicable only to retirement of bonds. Northern Pacific stock and other investments. Snpplies and construction material on hand. Accounts receivable. Cash in hands of Treasurer.	$\begin{array}{c} 149,663,519.80\\ 486,386.01\\ 3,424,534.05\\ 4,506,341.05\\ 2,573,058.38\\ 3,375,398.26 \end{array}$

	lows:				
		1882-83.	1881-82.	Increase.	P.c.
	Passengers carried	450,987	297,680	.53.307	51.4
	Passenger-miles	48.187,882	34,329,018	13,858,864	44.0
	Tons freight carried	790,006	655,075	134,931	20.€
	Ton-miles	218,557,248	181,851,537	36,705,711	21.2
	Av. receipts:				
	Per passenger-mile	3.40 cts.	3.33 cts.	0 07 ct.	2.1
	Perton-mile	2.07 "	2.01 "	0.06 "	2.8
	This does not inclu	ide the traff	ic of any of	the lines we	st of
	the gap in the main	line.			
,	The miles of second	last mass mass	a 150 071 4	ama am ima	

The wheat moved last year was 153,071 tons, an increase of 36,271, tons, or 3.11 per cent., over the previous year.

The eastward cattle movement increased from 9,200 head in 1882 to 30,000 head in last year.

The traffic of the Western divisions was as follows:

Passengers carried 100,163

Passenger-miles 6,221,000

Tons freight carried 303,330

Ton-miles 25,002,438

Tons freight carried. 203,330
Ton-miles. 25,002,438
The average rate per passenger-mile was 6.56 cents; per ton-mile, 3.13 cents. No comparisons are made with the previous years.
The report says: "The telegraph system has been greatly extended. Since the last annual report 293 miles of new p.les have been erected on the main line. We have now 1,191 miles of poles on the main line, not including 98½ used j-intly with other companies and 305½ miles on branch lines; 974½ miles of wire have been strung under contract with the Western Union Co.—199½ miles of exclusive Western Union wires and 782 of exclusive railroad wires. There are on the lines 154 offices and 194 operators.

"Gratifying results have been secured in the use of the coal and lignites found on and near the line of our road, and the problem of securing cheap fuel for locomotive use may be regarded as solved. In the last annual report it was stated that coal of excellent quality had been discovered in the Bull Mountains, about 30 miles north of Billings, Montan, and of easy access to the projected line from Billings to Fort Benton. Actual tests with this coal in locomotives show that four tons are the equivalent of three tons of the nest Pittsburgh coal burned under like conditions. The coal veins at Bull Mountain are 14 to 24 ft. thick. It is the opinion of the Superintendent that the coal can be put upon cars at \$1 per ton, and delivered on the main line at a cost not exceeding \$1.50 per, ton."

ı	exceeding \$1.50 per ton." The earnings of all lines for	the year w	rere	as follows	:
	1882-83, Freight \$5,409,081 Passet gers 2,009,746 Mail. etc 346,632	1831-82. \$3,909 4:23 1,302.261 218,621	I.	Inc. or Dec. \$1,499,658 797,485 128,011	P.o. 38 4 61.2 58.5
	Total\$7.855,459 Expenses5,336,930	\$5,430,305 3,572,840	I.	\$2,425,154 1,764,000	44 6
	Net earnings \$2,518.529 Gross carn. per mile	\$1,857 465 6.319 2,438 65.80	I. D. D.		35 6 10.8 32.4

8318 Repense include texes and rentals, which amount to

Treasurer's state	ment as	follow	8:	 ****
Balance, July 1, 18	82			 \$3,039,923.49
Earnings of road				 7,855,459.26
Land Department.				 1.511.316.14
Miscellaneous				 12,249.00
Proceeds of bonds	sold			 18,500,000.00
" preferred	stock s	old		 757,159.86
Loans for construc	tion purp	oses	. 9 2 - 5	 5,452,081.76
Total				 \$37,128,199,51

***************************************	Tree trees trees to the	7
Working expenses		
Rentals and taxes	388,862.94	
Interest	1,209,837.53	
Interest on dividend scrap	139,224.63	
Preferred stock and bonds canceled	253,968.30	
Land Dep't expenses and surplus		
for retiring bonds	1,257,347.84	
New construction	16,370,905.81	
New equipment	1,604,916,37	
Improvement of old road	2,013,966 61	
Material	247,281,16	
Interest	604.918.76	
Advances repaid	4,593,946.02	

Balance, July 1, 1883... \$3,494,956.71

Of this balance the sum of \$2.275,651.96 is cash reserved to meet interest uncalled for and accuring, and the balance of \$1,219,304.75 is cash in the hands of the Treasurer and other disbursing officers.

This income account may be sumed up as follows:

Receipts for operation of road	I
Total. \$34,088,276.02 Expenses and interest on old road\$6,685,991 93	l

. \$455,033,22 Balance, increase of cash on hard......

LAND DEPARTMENT.

The operations of the Land d-partment for the year were

extensive, the sales being as follows:		
Minn. & Dakota Div	Acres.	Amount. \$1.700.518
Missouri Div		324,421
Yellowston Div	6,568	24,625
Montana District	186 361	144,488 783,614
Pend d'Oreille Div	26,946	134,195
Total		\$3,061,861
Town lots, all divisions		330.971

Total amount of sales
The total amount of sales in 1881-82 was \$1,476,256. The report says: "It is worthy of note that not only has there been a large increase in the number of acres sold during the past fiscal year over the sales of 1882, but also that the average price per acre obtained for lands sold has been materially advanced. The increase in price is especially noticeable in sales made in Montana and-Washington territories, where the advance has been largely secured by a judicious system of appraisement, in lieu of the uniform price in use in previous years.
"This increase in average price per screets, in the Eastern District (Minnesota & Dakota, Missourl and Yellowstone divisions), \$0.19; in the Montana District, \$1.65; in the

The average mileage worked in 1889-89 was 1,497 miles. In 1881-82, the average was 797 miles. In 1881-82, the average average

FINANCIAL STATEMENTS.

FINANCIAL STATEMENTS.

The report says: "At the close of the fiscal year ending June 30, 1882, the syndicate had taken \$20,000,000 of the general mortgage bonds, having further options for \$10,000,000 in 1882 and \$10,000,000 in 1883, which, when taken, would complete the contract. The \$10,000,000 for 1882 were provided for by acceptance of new road during that year, and were promptly taken by the syndicate. In the spring of 1883 the syndicate had disposed of \$31,000,000, and offered for sale the remaining \$9,000,000, which were all subscribed for, and on June 30 the entire option for 1883 was declared. It was not in the power of the company, however, at that time to deliver all the bonds called for, in consequence of a syndicient mileage of new road not having been accepted; delivery, therefore, was made only of such an amount of bonds as could properly be issued under the provisions of the mortgage; and the money for the remaining bonds has been credited to advances on general mortgage bonds. Of the proceeds of these bonds \$4,593,946.02 was paid June 30, 1883, to the Oregon & Transcontinental Co. on account of the indebtedness to it for leans and advances.

gage bonds. Of the proceeds of these bonds \$4,593,946.02 was paid Jume 30, 1883, to the Oregon & Transcontinental Co. on account of the indebtedness to it for leans and advances.

"The excess of expenditures on account of construction and equipment (\$7,986,507.92) over the cash receipts from the proceeds of the \$40,000,000 general mortgage bonds, sales of preferred stock and other sources of income, arises from several causes. In the first place, the cost of construction exceeded the engineer's estimates. The work was to be done in remote regions, the natural conditions of which, such as climate, seasons, character of soil and streams, and geological formation, were so many unknown factors entering into the construction problem. Thus—to mention some instances illustrating this—the cost of the road bed along the Yellowstone and the Clark's Fork of the Columbia was very much increased by the waters of those rivers washing out and undermining the banks; and the tunnels through the Belt Mountains and the main range of the Rocky Mountains cost nearly 50 per cent. more than the original estimates, simply because, instead of solid rock, as was expected, loose material was encountered. Next, the construction account embraces the outlay required not only for building the road itself in a first-class manner, but also such extraordinary works as the three great bridges over the Missouri, the Snake and the Willamette rivers (the first of which is completed, and the last two are being constructed), the extensive central shops and other buildings at Brainerd, and the several division shops, all of which latter have been constructed in the most substantial and approved manner, and on the scale sufficient to meet the wants of the company for many years to come. Then, again, the increase of traffic on the main line, together with the construction of branch lines and the several division and equipment of the road is, by the terms of the mortgage, restricted to \$25,000 of bonds ner mile of road actually completed and accepted by

and a spillar to the Bet a requestor of all the answer

washington territories, your obaid feel warranted it axpressing their belief that the payment of regular dividends on the preferred stock may be reasonably expected to begin at an early date."

NEW CONSTRUCTION.

The report says: "The work of construction on the main line and branches has made satisfactory progress since the last annual report.

"Wisconsin Division.—During the early part of the fiscal year the work on the first 25 miles of this division, from Northern Pacific Junction to Superior, was completed. Surveys were made last spring for the extension of the division as far as Asbland, 60 miles from Superior, and a contract was made for the clearing, grading and bridging. Thirty miles of road-bed will be completed, and the track laid before the close of the present working season, and the remaining 30 miles will be finished early in 1884.

"The Great Tunnels.—The total 1-ngth of the Bozeman Tunnel is 3,612 ft. Of this distance there had been excavated June 30, 1883, from the east end 1,266 ft. and from the west end 641 ft., making a total of 1,907 ft., and leaving 1,705 ft. yet to be opened at that date. It is expected that this tunnel will be completed by Jan. 1, 1884. The Iron Ridge Tunnel, 18 miles west of Helena, having a total length of 533 ft., was completed in April last. Up to Feb. 1, it was expected that the Mullan Tunnel would be completed in time to lay the track through in June; but the work was delayed by the falling of masses of rock, and the necessity for protecting the sides and roof with heavy timbers, so that no progress was made at the eastern end for two months. The length of the tunnel is 3,850 ft. On June 30, 1883, there had been completed at the east end 2,077 ft., and at the west end 1,465 ft. of heading and 885 ft. of bottom, making the total of heading 3,642 ft. and of bottom, 2,965 ft., and leaving to be completed 308 ft. of heading and 885 ft. of bottom The headings met on Aug. 17. If no new and unforescen difficulties arise, this tunnel will be completed in October.

"Portla

"Little Falls & Dakota.—At the beginning of the fiscal year 55 miles of track had been laid. During the year the line to Morris, 87% miles, was completed and put in operation.

"Northern Pacific, Fergus & Black Hills.—Track-laying was resumed at Fergus Falls in August, 1882, and has now reached a point 40 miles west of Breckenridge. Total amount of track laid during the fiscal year, 65 miles. About 2½ miles of additional grading is ready for the rails, and the track will soon be put down, thus reaching the terminus at Milnor, 117 miles from Wadena.

"Fargo & Southwestern.—This branch starts at Fargo and runs in a southwesterly direction to La Moure, on the James River, a distance of 87½ miles. Track-laying began July, 1882, and was completed to Lisbon, 55 miles, in December. During the present season the track reached the terminus, La Moure.

"Jamestown & Northern.—This branch leaves the main line one mile west of Jamestown, and runs in a northerly direction 95 miles to the west end of Devil's Lake. Considerable grading was done during the fiscal year 1881-82. Track-laying began in August last, and had progressed as far as Carrington, 42 miles, at the beginning of the winter. The grading is nearly completed to the lake, and the track will soon be laid. A survey has been made for an extension of the line to the Dominion Boundary.

"National Park Branch.—This line was located in October last, leaving the main line at Livingston and running up the Yellowstone River to the northern boundary of the National Park, a distance of 51 miles. The work was commenced last spring, and was completed in August.

"Palouse Branch.—Track was laid, prior to the end of the fiscal year, from Palouse Junction eastward a distance of 32 miles. Track-laying bas since progressed a further distance of 60 miles. The road will soon be opened for traffic as far as Colfax, and will be completed in 1884.

"Seattle Branch.—The track has been laid to a point about 25 miles from Tacoma and 15 from the junction with the Cascade Branch.—The track h

They were advanced during the year:	
From the East. From the West.	Miles. 2931/4 1661/4
Total Leaving June 30, 1883, 114 miles to be completed. has since been completed and the gap closed.	450 This
Total track laid on main l'ne	Miles. . 450 . 307
Grand total for fiscal year	737

Grand total for fiscal year.

"Since the class of the fiscal year, and up to Sept. 15, 294 miles of additional track have been laid on the main line and branches, making 1,041 miles for the period beginning July 1, 1882, and ending Sept. 15, 1833."

TERMINAL CONSTRUCTION.

"A company called the Northern Pacific Terminel Co. of Oregon has been formed. Its capital stock is \$3,000 000, held in the following proportions: Northern Pacific 40 per cent.; Oregon & California, 20 per cent.

"A total issue of \$5,000 000 6 per cent. gold bonds by the Terminal Co. was authorized to provide the means to purchase terminal grounds and to erect the requisite improvements thereon. Of these bonds \$3,000,000 have been sold at par, and the proceeds devoted to the acquirement of valuable real estate, both in the city of Portland, on the left bank of the Willamette, and in East Portland, on the opposite bank. The property in Fortland proper comprises some 69 acres, adjoining the business portion of the city, with the use of 2,200 ft. of dock facilities on the river bank."

Arrangement for an independent line to St. Paul and for

the terms and form whereof are to be decided upon hereafter.

"The volume of the preferred stock is being continually
and steadily reduced through the seles of lands in Minnesota
and Dakota, east of the Missouri River. At the end of the
fiscal year (June 30, 1883) there had been canceled and extinguished \$9,250,536,10 of the original \$51,000,000, leaving then existing \$41,749,463,90 preferred stock, including
fractional scrip.

"In view of the necessity of using all the available resources of the company for construction and equipment purposes, your board deemed it unwise to declare cash dividends.



Published Every Friday, CONDUCTED BY

S. WRIGHT DUNNING AND M. N. FORNEY.

EDITORIAL ANNOUNCEMENTS.

Passes .- All persons connected with this paper are forbidden to ask for passes under any circumstances, and we will be thankful to have any act of the kind reported to this office.

Addresses .- Business letters should' be addressed and drafts made payable to THE RAILROAD GAZETTE. Communications for the attention of the Editors show'd be addressed Editor RAILROAD GAZETTE.

-Subscribers and others will materially assist us in making our news accurate and complete i they will send us early information of events which take place under their observation, such as changes in rail road officers, organizations and changes of companies, the letting, progress and completion of contracts for new works or important improvements of old ones, experiments in the construction of roads and machinery and in their management, particulars as to the business of railroads, and suggestions as to its improvement. Discussions of subjects pertaining to ALL DEPARTMENTS of railroad business by men practically acquainted with them are especially desired. Officers will oblige us by forwarding early copies of notices of meetings, elections appointments, and especially annual reports, some notice of all of which will be published.

Advertisements .- We wish it distinctly unders'ood that we will entertain no proposition to publish anything in this journal for pay, EXCEPT IN THE ADVERTISING COL-We give in our editorial columns OUR OWN opin ions, and those only, and in our news columns present only such matter as we consider interesting and important to our readers. Those who wish to recommend their inventions, machinery, supplies, financial schemes, etc., to our readers can do so fully in our advertising columns, but it is useless to ask us to recommend them editorially, either for money or in consideration of advertising patronage.

THE NORTHERN PACIFIC REPORT.

Closely following the opening of the Northern Pacific Railroad across the continent comes the report of the company for the year ending with June last-a document which excites unusual attention, not only because of the interest in the recent opening of the road, but also and chiefly because of the activity of the shares of the company on the exchanges. For, unlike most roads while under construction, there has been for two years a great deal of speculation in Northern Pacific stock, and on the New York Exchange at times it has led the list.

Perhaps there has been some advantage in this to the company. It was borrowing money to complete its road. It helped its credit greatly that its shares had a large marketable value. Bonds with a property hind them selling in the market at the rate of \$68,000,-000, which is what the Northern Pacific common and preferred stock amounted to at the prices at which the shares were sold in New York by tens of thousands just a year ago, made the bonds, amounting to about \$40,000,000, seem very strongly secured, and they commanded and command good prices. They were negotiated without difficulty, and doubtless on much better terms than if there had been no market or only nominal prices for the stock. But, of course, those who have bought these shares so freely are now anxious to know what property and what prospects of future profits they represent.

President Villard's report is very full of information, including many subjects which are of prime importance in considering the prospects of a new enterprise in a new and largely unknown country, which would be unnecessary in the report of an established railroad. A concise statement of the actual property and of the financial position of the company, and its probable immediate requirements, we miss, however (as in most

What then is the property and what the probable charges against net earnings of the Northern Pacific Railroad Company?

It owns a railroad from Superior, Wis., across the continent to the point where Clark's Fork and the Snake River unite to form the Columbia, 1,682½ miles, a half interest in the 24 miles which gives it an entrance into Duluth, and what is now an isolated line

River north to Puget Sound, 105 miles, which is if their payments are to be in proportion to their holdat right angles with the main line, and will properly be considered as a branch even after the completion of the road connecting it with the main line. There are 511 miles of other branches worked by the Northern Pacific, but they are not yet owned by it nor covered by its stock and bonds, but it pays rental for them to the Oregon & Transcontinental Co. It also leases the line from Brainerd to St. Paul; and work is far advanced on 124 miles of other extensions and branches of the Northern Pacific, all of which are the property of the Transcontinental. The 214 miles of road along the Columbia River by which the Northern Pacific reaches Portland are owned and worked by the Oregon Railway & Navigation Co., which receives the earnings and is alone responsible for the liabilities of this part of the line. Thus the Northern Pacific road, overed by its capital, is 1,800 miles long. Most of the branch lines which it leases are likely in time to have quite as heavy a traffic as the average of the main line, s they are nearly all in the most fertile country in Minnesota, Dakota and Eastern Washington, and they will all become its property by the operation of a sinking fund.

The equipment June 30 (which, doubtless, was all that as then paid for), with which not only the 1,812 miles of road above, but 637 miles of leased road are worked, onsisted of 289 locomotives, 167 passenger-train cars, 7,400 freight cars, and 107 service cars—that is, cars used only in the service of the road and not to carry paying traffic. This gives a locomotive for every 6.3 miles of road, and one passenger-train car for 10.9 miles, and 4.06 freight cars per mile of road. There were under contract 89 more locomotives and 2,396 more cars, the payment for which will, of course, increase the capital account as it stood June 30. This is a light equipment. There is no separate charge for equipment on the balance sheet, but the additions this ear are charged in the income account at \$1,604,916. At the very lowest prices, however, the 181 loca motives and 2,466 cars shown in the list as added during the year would have cost more than \$2,500,000, so that the additions in the list are probably not all the same as those charged to new equipment in the inco account. Fstinating the value of locomotives at \$9,000, of passenger-train cars at \$5 000, and of freight train cars at \$600 each (liberal prices), the equipment June 30 may have cost about \$3,000,000, or \$4,445 per mile of road owned.

Now this property is nominally represented by \$33,631.000 of general mortgage and \$5,890,000 of other bonds, \$49,000,000 of common and \$41,749,464 of preferred stock. The report says, however, that onstruction cost nearly \$8,000,000 (\$7,986,508) more than the amount provided by the sales of stocks and bonds, which was a floating debt. There was besides scrip out-tanding for the dividend of 11.1 per cent.

declared last year, amounting to \$4,640,821.

There is thus \$12,627,329 of debt on which interest must be paid, besides the bonds outstanding. The report does not leave it clear whether the \$8,000,000 exess of cost of road was what had accrued at the end of the fiscal year, or the amount after the road was completed. If the former, since there were no more bonds to be issued. there must have been a considerable addit on to it since June; and in either case there must be some addition to it hereafter, as there considerable amount of construction work still to be We have at all events \$52,148,000 of obligations on which interest must be paid before there can be dividends, requiring, we will say, \$3,130,000 per

Further, the proceeds of the stock and bonds not being sufficient to complete the road, resort was had to other means to secure the requisite terminal property at both ends of the road. The St. Paul & Northern Pacific, owning the line (not yet completed) from Brainerd to St. Paul, and the great and costly terminal grounds between St. Paul and Minneapolis, is authorized to issue \$10,000,000 of bonds and has already sold \$5,000,000 of them. Its property is leased to the Northern Pacific, without equipment, for 40 per cent. of the gross earnings, but not less than the interest on the bonds. Thus in all estimates of the profits of the line from St. Paul to the Pacific, the interest on the bonds of this company must be regarded as part of the fixed charges on the Northern Pacific. The interest on the amount now issued will be \$800,000 per year.

At Portland the "Northern Pacific Terminal will provide the grounds, docks, wareho stations, etc.; but here two other companies partici pate. The Oregon Railway & Navigation Co. owns 40 per cent., the Oregon & California 20 per cent. of the stock, and the Northern Pacific 40 per cent. This company has issued \$3,000,000 of \$5,000,000 bonds authorized, for the purchase of land. The three lessee across the territory of Washington from the Columbia companies pay the interest on the bonds as rental, and age they cultivate.

ings of the stock, the Northern Pacific's share for the bonds already issued will be \$72,000. We have then what appears to be minimum rentals amounting to \$372,000 for these two terminal properties, which form a part of the fixed charges of the Northern Pacific Railroad, in addition to the interest on its own bonds.

On the 511 miles of branches leased from the Transcontinental Company, which will very soon be 630 miles, the Northern Pacific is to pay a minimum rental of \$1,200 per mile a year and a sinking fund of \$200, but it will not be liable for this amount until two ears after the completion of the roads leased. Probably for that time it will pay over the whole net earnings if they are less than \$1,400 per year: the statements of the terms of the lease do not make this plain. Only a very small part of these branches is two years If our interpretation of the terms of the lease is correct, these lines cannot at present be a burden on the Northern Pacific, but will probably not add anything directly to its income : that is, the fixed charges of the Northern Pacific proper cannot be increased by deficits of the Transcontinental branches until these have been open two years. When they have been open two years they will require a rental of about \$750,000 per year and a further yearly payment of about \$125,000, which, however, will be properly chargeable to capital, as through it the Northern Pacific will become the owner of the property.

We then find minimum charges of \$3,502,000 which

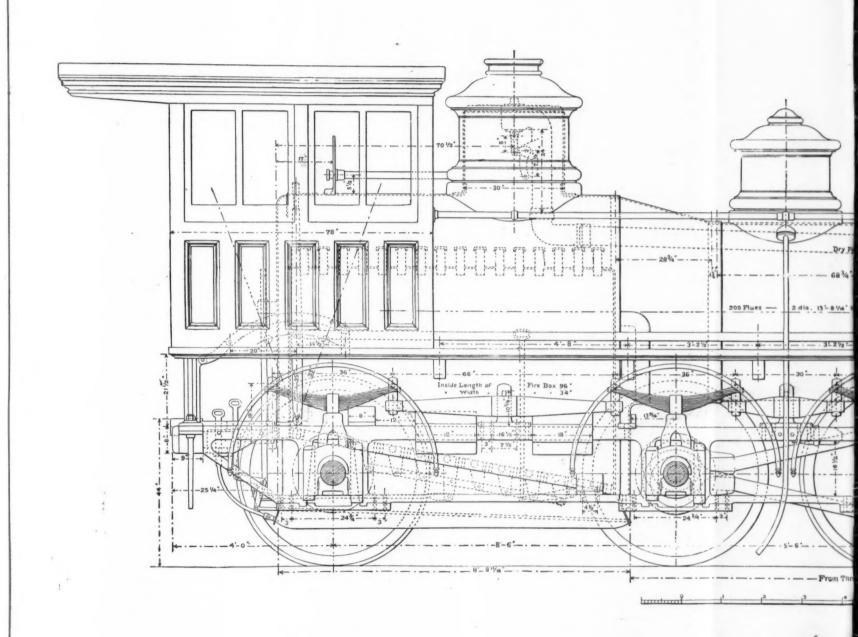
ust be paid from the net earnings of the Northern Pacific's 1,800 miles of road owned and the 152 of the eased St. Paul & Northern Pacific, which is at the rate of \$1,800 per mile of road, very nearly. ever further expenditures may be made for the Northern Pacific on the two terminal properties will require an addition to these charges. About 90 miles of the St. Paul & Northern Pacific remain to be constructed, so that the larger part of this fiscal year, doubtless, rental will still be paid to the St. Paul, Minneapo-Manitoba for the use of its road to St. Paul.

Since laboriously calculating this financial position of the company, we have seen its own statement, which differs from ours by making no allowance for the interest on the terminal companies' bonds, which it is perhaps intended to include in working expenses which, "with rentals and taxes," are estimated to be 60 per cent. of the gross earnings, which are estimated at 15 millions. This statement gives the mileage of branches as 446, which was the mileage completed at the close of the last fiscal year (June 30); but since that time down to Sept. 15 President Villard says that 170 miles more have completed, making 616 miles, while about 125 miles of extensions are soon to be completed. , The statement ays that arrangements for funding the \$8,000,000 have been made, and it gives the interest on it as 6 per cent., the same as on the other debt.

Now for the last fiscal year the company reports \$7, 355,459 of gross and \$2,761,293 of net earnings from an average of 1,497 miles of road. The earnings of the road built in the last fiscal year, however, of course are no criterion of what they will be now that the road is opened through, as a very large part of it had very little value until the road was ompleted. But \$6,267,490 of the gross earnings were on the eastern divisions of the road, all but 300 miles which was open at the beginning of the year, while about 600 miles of it have been in operation for many years. The 105 miles of Pacific Division have also been in operation about ten years and the 34 miles of the line to Carbonado, connecting with it, have been several years in operation. The 139 miles of road there earned about \$3,000 per mile gross last year. The 231 miles of the Pend d'Oreille Division, all of which was open all last year, and more than half of it the year before, earned at the rate of \$3,536 gross and \$1,168 net er mile; its traffic must have been very largely construction material and supplies for the working force, as there is scarcely any population on the northern third of this division, which, however, may supply in lumber and timber more traffic than some peopled portions of the line.

There has been a great growth of population on this

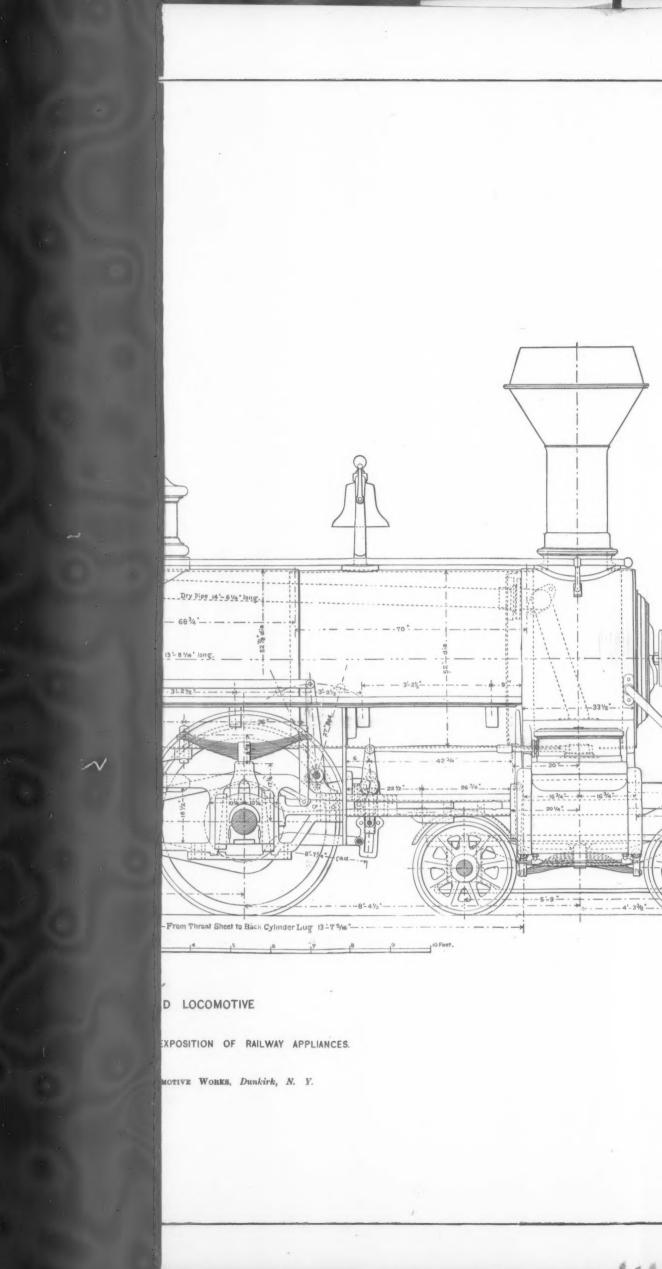
road east of Missouri—great in amount, and not simply in percentage. More and more land is brought under cultivation yearly, and this growth is sure to continue; it may not be at as rapid a rate as heretofore as the choicest lands have now been occupied, and there is not the same eagerness to take what is inferior or at a greater distance from transportation. it is proper to count on a great growth of traffic here immediately, as this year's immigrants will grow their first crops next year, and the settlers of the past two or three years will nearly all add something to the acre-

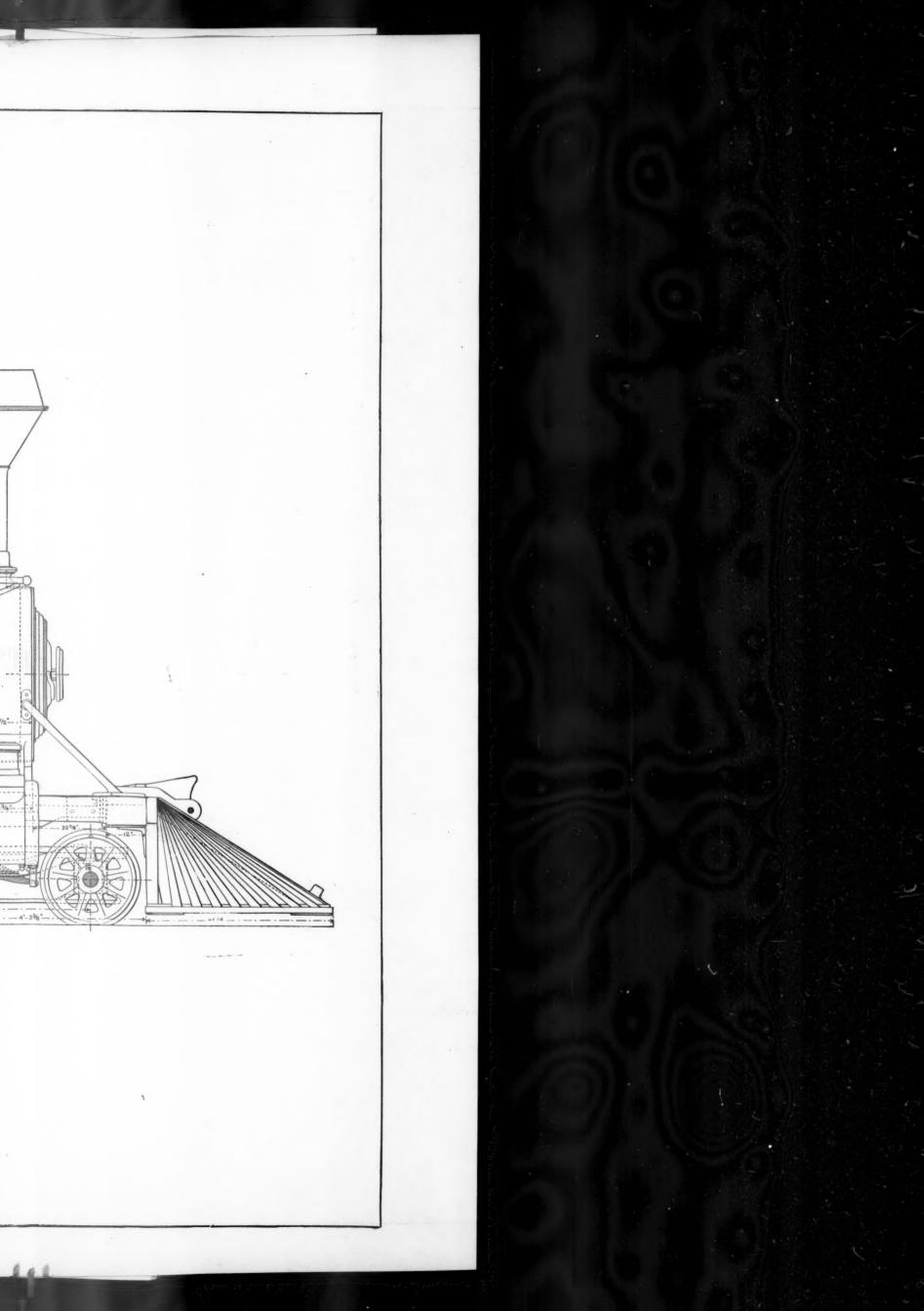


TEN-WHEELED LOC

EXHIBITED AT THE CHICAGO EXPOSITE

Built by the BROOKS LOCOMOTIVE







has been rapid, but it is not very great in amount, or rather in amount per mile. The effect of the railroad in stimulating it cannot easily be estimated before-

There are some mines and some valuable forests along the long stretch of road, some 400 miles, over the mountains, and some fertile land and more good for grazing, but this will probably be a not very productive section of the road.

The report indicates that there is less productive wheat land on the Pend d'Oreille Division than we had supposed. From all stations on this division the shipments of grain last year were but 541 tons, equivalent to 18,033 bushels of wheat, two-thirds of which were from one station (Cheney). Not far south of this division is the great wheat country penetrated by the Oregon Navigation Company's lines; and it is to reach it, doubtless, that the Palouse Branch of the Northern Pacific has been built. Though none of this division is much more than two years old, if there were much land on it as productive as that in the vicinity of Walla Walla, it would have been almost sure to ship more than ten times the grain shipments of the divis

Besides what growth there may be in the local traffic, must be added the entire amount of through traffic, which the road began to carry this month. We do not think that this can be very large in amount, but it will be profitable. Should it be that proportion of the total Pacific traffic that the population of Oregon and Washington bears to the whole Pacific coast population it will be about one-fourth of it. The Union Pacific, through its Oregon Short Line, will have a share of the Oregon traffic; and though the Northern Pacific, through steamer connections, may have some California traffic, it is not easy to see why it should have more than the Central Pacific can get

in the same way from Oregon.

But against all additions to earnings must be offset a great decrease in receipts for construction freight and travel, which last year amounted to no less than \$1,523,113, or nearly one-fifth of the total earnings. It is said that this was charged at cost; but though the charges may have been no more than the average cost of such service, it is not probable that the working expenses would have been reduced \$1,500,000 or any thing like it if this construction traffic had not been carried. We will at all events have to take this amount from the gross earnings to find the commercial business which the management expects to increase to \$15,000,000 this year. That is, they estimate an addition of \$8,670,000 to their earnings as a carrier for other people, which will be an increase of 134 per cent. This seems to us to be a very sanguine estimate. The aggregate earnings of the Union and Central Pacific roads, 1,900 miles, in 1870, the first year they were open throughout the year, (they were open 7_8 months in 1869) were \$15,620,400 gross and \$6,748,600 net. The country on the eastern end and on the plains on their line was less developed than on the corresponding parts of the Northern Pacific now; but the California end was much more developed and had a much larger population and traffic than the Oregon end of the Northern Pacific has now; and before the Central Pacific was opened through it was earning nearly \$10,000 per mile. And of course these roads had the whole Pacific through traffic then, including that of Oregon.

The Northern Pacific cannot count on any such additions to its gross and net earnings from through traffic, as the first Pacific road had the first year it was opened. It cannot get so much of it, nor so high rates for carry ing it. Its prosperity must come chiefly, not from traffic which it will divert from the older roads, but from the growth of traffic on its own lines. This for several years has been extremely rapid; but it has not yet made the earnings heavy on any part of the road. On the eastern divisions about 1,000 miles were open the whole of last year, and the gross earnings of this and the parts open but part of the year were, we have seen, \$6,267,490, of which probably more than \$1,000,000 was for construction mate rial. Of this road 586 miles are ten years old. It includes the only part of the road which has on it a large acreage under cultivation and a considerable population. The road further west must make great progress before it can have so large a traffic, and much more than can be reasonably expected in one year, without a large through business. That in time the road will have such earnings and larger even is entirely probable.

But the company will prosper with much smaller earnings. The interest and rentals will probably be something more than the \$3,500,000 which the capital issued at this time requires, but the net earnings last year were more than \$2,700,000, and we can make a

West of the Missouri to the mountains the growth large discount from the company's estimate of the property to the best advantage. But they were ambitious, and they wanted to make themselves a there in amount per mile. The effect of the railroad good deal more than \$3,500,000. The estimate repower in Vermont and in the railroad system of New ferred to would make the surplus \$2,870,000, which is nearly 7 per cent. on the preferred stock. It will not do to count on that, however. The road will do very well indeed if it earns a small surplus this first year of the through line, which is also the first year of most of the branches. If it does that there will be assurance of good profits in the future.

THE CLOSE OF THE VERMONT CENTRAL CASE.

The recent refusal of the Federal Court in Vermont to interfere with the compromise settlement of the Vermont Central litigation, at the suit of one of the few who had refused to join in that settlement, may be considered as the final close of that remarkable case It does not appear probable that any further effort will be made to prevent the completion of the settlement, which nearly all the parties in interest were willing to ccept, however unjust some of them might consider it, rather than to continue the fight.

The close of a litigation which has lasted for nearly 30 years is of itself sufficiently important to demand some notice, and the Vermont Central case is, independently of its long duration, so curious and involved chapter of railroad history that a brief account of it will be of interest. Such an account, however, can ouch only the leading points, for the case itself, were all its various intricacies and changes to be followed and were all the incidents which might shed light upon it to be brought out, would easily furnish materials for

a volume rather than a page.

In 1849 the Vermont Central Railroad Company leased the Vermont & Canada road, then not quite completed, at a rental of 8 per cent. on its \$2,000,000 stock. A year later an amended lease was made, the rental remaining the same, and a clause in the new ease providing that, in case of a default in payment, the Vermont & Canada Company might take posse of both roads and run them until all arrears were paid up from their net earnings-probably the most strinent provision ever inserted in a railroad leas

The rent was a heavy one to pay, considering the value of the road at that time. The Vermont Central Company had a considerable bonded debt to provide for in addition: its earnings were light, and the natural result followed. In November, 1854, it made default in the interest then due on its bonds, and a month later also in the rental due the Canada Company. The latter company promptly applied to the Chancery Court for authority to execute the provisions of the lease by taking possession of its own and the lessee's road. But the trustees under the Vermont Central mortgages had already applied to the Court under the authority given them for the protection of the bondholders, and, after considering both applications, the Chancellor decided to reconcile them as far as possible. and accordingly turned over both roads to the trustees, making them the receivers and managers of the joint property for the benefit of all parties in interest. This receivership continued for nearly 10 years, but its results were not altogether satisfactory, and the arrears of rental and interest were not paid.

After long negotiations a compromise was made which, it was then thought, would put an end to the litigation. The Canada Company agreed to capitalize the arrears of rental. increasing its stock from \$2,000, 000 to \$3,000,000, and was to receive 8 per cent, on the whole amount, and a partial settlement was made with the Central bondholders. To secure the carrying out of this agreement both roads were to remain under the management of the trustees, and under this agreement the so-called "perpetual receivership" of 1864 was instituted.

From the proceedings had at the time it is clear that the Court regarded this arrangement as entirely dependent for its validity upon the agreement between the parties in interest, and while a formal decree was made instituting the perpetual receivership and appointing the trustees and managers thereunder, it was in evidence in the later litigation—and the statement was not contradicted-that the then Chancellor Poland—a distinguished lawyer and afterwards Congressman and Senator from the state-remarked at the time that the decree of the Court was not cessary except as a matter of form to impress the holders of securities, and that they might as well have asked the approval of a town meeting as of the Court, for all that was necessary.

Such was the opinion at the time; later it was claimed that the receivers and managers were officers of the Court and in that capacity exempt from interference from the owners of the roads.

The receivership might have resulted well, had the receivers been content with a simple management of England.

To this end they extended their operations beyond the two lines which they controlled. leased the Stanstead, Shefford & Chambly road in Canada; they leased the Sullivan road, the New London Northern and the Harlem Extension to the southward and the Ogdensburg & Lake Champlain to the westward; they entered into complicated and far-reaching contracts for through business with the Grand Trunk and with the Concord and the Lowell roads and their connections between Vermont and Boston; they leased the Rutland Railroad, the chief rival and competitor of the Vermont Central, and they established steamer lines from Ogdensburg to the upper lakes in the hope of drawing a share of traffic over their lines.

The extended operations required money, and it was raised in various ways, chiefly by the issue of equipment and other guaranteed bonds, which were known as the trust debt. Some of the leases and contracts involved considerable loss, and none of them appear to have been of much profit, to the trust at least, for it was said in Vermont then that they were so managed that the profitable leases were held by the managers as individuals, while the losses were saddled upon the trust. This may have been true and may not; but at east the trust debt assumed large proportions

Eight years after the perpetual receivership began the trustees and managers controlled the greater part of the railroad system of Vermont, and their lines carried the larger share of the business of the Grand Trunk and from Lake Ontario to Boston; but much of the business was unprofitable, and the trust debt had become enormous in comparison with the property on which it was based; moreover, the management of the trust under the nominal authority of the Court had become a grave public scandal. It was charged that the influence of the trustees was largely felt in state politics, that it controlled legislation and that the Court of Chancery was managed by the trust instead of managing it. Some exaggeration there was in these charges, no doubt, but some truth also, and an effort was made to remedy the anomalous condition of affairs.

The Legislature of Vermont chartered a new corporation, known as the Central Vermont Company, which was to acquire the Vermont Central and the Vermont & Canada roads by purchase, together with such of the leased lines as might seem expedient, and was to consolidate and bring into shape the trust debt and free the trust properties from the receivership and from all connection with the courts. The stock of the Vermont Central Company had years before been acquired by one of the trustees through purchase at a judicial sale.

The Central Vermont Company was organized in 1872, but the organization was controlled entirely by the old trustees and receivers. An application was made to the Court of Chancery, and that Court appointed the new company Trustee and Receiver of the roads, thus changing the receivership in form but

Matters went on without much change for five years more. Nothing was done towards the purchase of the roads for which the new corporation had been chartered: default had been made on various issues of bonds, and the Vermont & Canada stockholders had received no rental since 1872. That company and the bondholders were clamorous for payment, and something had to be done. Accordingly the Central Vermont Company made application to the Court of Chancery for authority to sell the Central and the Canada roads in satisfaction of the trust debt. The Court granted an order of sale, and the matter was carried up to the Supreme Court for what was expected to be a final settlement.

In 1877 the Vermont Supreme Court gave the first and only decision in this long litigation which could be counted on the side of the stock and bondholders, who had had so little to say about the management of their property for over 20 years. This decision, in brief, was that the perpetual receivership of 1864 was not a valid receivership; that it was merely a management or trusteeship by consent of the parties in interest, and that the trust debt must be held subordinate to the lien of the Vermont Central bondholders and to the claim of the Vermont & Canada Company for rental, unless it could be clearly proved that the holders of those claims had knowingly consented to the subordination of their liens to those created by the trustees. As a necessary consequence, the order of sale was denied.

This decision put a different face upon affairs for a time. Under it there was a probability that the property might revert to its original owners, and there was also a possibility that the old trustees and man might be held individually liable for a part of the debt which they had incurred. To retain control of the property and to save themselves from ruin the decision must be reversed.

A suit, known as the Langdon suit, was accordingly begun, having the same object as before, to secure the sale of the trust property to satisfy the trust debt, but brought nominally by an outside holder that debt. This suit dragged slowly along, with a favorable decision from the Court of Chancery, and was last year finally passed upon by the Supreme Court, the composition of which had been changed since the decision of 1877, by the election of some new judges, and the retirement of others.

The new decision, while in terms it respected the former opinion of the Court in relation to the receivership, practically reversed it. The Court now held that while the perpetual receivership was a management by consent, the parties in interest had given their of the managers, and that the trust debt must be held to be a lien in the nature of an equitable mortgage, taking precedence of the claims of the Central bondholders and the Canada rental; and that the roads might be sold to satisfy this equitable mortgage. An inquiry into the amount of the trust debt was ordered, as a preliminary to an order of sale unless the original owners should elect to redeem their property by the payment of the debt.

This decision was the beginning of the end of the long litigation. The Vermont Central bondholders were scattered and had little to hope for from further proceedings. The Vermont & Canada stockholders who had the advantage of a corporate organization under the leadership of a President, Mr. F. A. Brooks, who had shown both legal ability and untiring perseverance, at last gave up the fight and were ready for a compromise. They had not lost faith in the justice of the cause, but they did despair of securing anything from the courts.

The terms of the compromise can be briefly explained. A new company is organized, known as the Consolidated Railroad Company, of Vermont, which acquires the Vermont Central road by fore-closure and the Vermont & Canada by purchase. The Consolidated Company issues \$750,000 preferred stock and \$7,000,000 in 5 per cent. bonds, the preferred stock being given in exchange for the old Vermont Central bonds, holders of the first-mortgage bonds receiving 20 per cent. and of the second-mortgage bonds 10 per cent: of their face in the new security. Of the bonds \$4,357,000 are exchanged for the various issues of trust bonds at their face value; \$1,643,000 are used to pay the floating debt of the trust, including a claim of the Central Vermont Company, while the remaining \$1,000,000 are exchanged for the Vermont & Canada stock, whose holders thus accept one-third of the face value of their stock and surrender their claim for 11 years' unpaid rental.

Under this arrangement, it will be seen, the creditors of the trust receive six-sevenths of the securities having a fixed charge upon the property, while the stockholders of the Canada Company have to be content with the remaining one-seventh, and the Central bondholders with a security whose value is wholly contingent upon the future earnings of the property. That is, the claims of those who held what thay had a right to consider a prior lien are wholly subordinated to a debt contracted by a management entirely beyond their control, and for purposes largely foreign to the original intention of the trust. But it is apparently the best that they can do, and they are probably right in accepting anything rather than continuing the litigation, from which they have gained nothing in the past and which promises them nothing in the future

A plain statement of the facts in this case, as full as it can be made without undue length, is all that has been aimed at. It is too late now and this is not the place to bring charges against any individual or to make insinuations against the integrity of any courts. It is evident, however, that the Vermont Central case is one in which the holders of railroad securities have been deprived of a large share of their prop. erty not without, but by, "due process of law," the result is one of those which may hereafter be quoted to the discredit of American railroad manage ment and American law.

But after all there is a possibility that the case may not be ended. A circular, issued only yesterday by the directors of the Vermont & Canada Company, warns the stockholders of that company that there are indications that the compromise agreement has not een fully complied with, and advises them not to been fully complied with, and advises them not to of the 75 derailments, 12 caused death and 16 injury; a part with their stock until it is evident that the other of the 10 other accidents, 1 caused death and 9 injury.

parties to it have fully done their part. This may be excessive caution, but the past history of the case does not warrant over-confidence, and their advice is prudent, even if it should prove to be unnecessary It is to be hoped that they are mistaken, for the settle-ment, inequitable as it may be, seems to offer more to the stockholders whom they represent than they can hope to gain from a further continuance of the

August Accidents.

Our record of train accidents in August, given in full elsewhere, shows for that month a total of 144 accidents, in which 42 persons were killed and 136 injured. The record is not the longest which we have had this year, but is still a g one for midsummer.

As compared with August, 1882, there was an incr 5 accidents: a decrease of 4 in the number killed, and a de-

ease of 82 in that of injured.
The record includes 59 collisions, in which 23 pers were killed and 50 injured; 75 derailments, in which 18 persons were killed and 82 injured, and 10 other accidents, in which 1 person was killed and 4 injured. Twenty-two of the killed and 34 of the injured in the collisions were railroad employés, as were 15 of the killed and 30 of the injured in the derailments and also the single person killed and one of the injured in the other accidents. The record includes but one accident with a large number of casualties.

These accidents may be classed as to their nature and

COLLISIONS:	
Butting collisions. Crossing collisions.	
DERAILMENTA:	-08
Broken rail Broken frog Broken switch rod Broken switch rod Broken bridge Sureading of rails Broken wheel Broken axle Accidental obstruction Cattle on track Wash-out Wind Open draw Misplaced switch Rail purposely removed	222227364711191
Unexplained	-75
OTHER ACCIDENTS:	
Boiler explosion. Broken coupling or parallel rod. Broken truck not causing derailment. Broken draw-bar not causing derailment. Broken axle not causing derailment. Accidental obstruction not causing derailment. Uar burned while running	1 1 1 1 1 1 10
Total	144

Total. 144
Eight collisions were caused by trains breaking in two; eight by misplaced switches; three by mistakes in orders or failure to obey them; one each by a runaway car, by cars carelessly left on main track, and by fog. In several other cases there is little doubt that collisions were caused by mistakes in orders. akes in orders.

Of the two broken bridges one was an ordinary wooden trestle, no reason for the failure being given; the other a wooden bridge which had been damaged by fire.

A general classification of the causes of these accidents

	isions.	Derailments.	Other.	Total.
Defects of road	'à	15	8	15 27
Negligence in operating Unforeseen obstructions	50	10		60
Maliciously caused		27		27
Total	59	75	10	144

Negligence in operation was thus the direct cause of 41.7 whole number of accidents. unexplained derailments can probably be attributed to de fects of road or equipment.

A division of the accidents and the resulting casualties

according to classes of trains is made as follows

Accidents: Co	ollisions.	Derailments.	Other.	Total
To passenger trains		23	5	30
To a pass. and a freight To freight trains	46	52	5	100
Total	59	73	10	14
Killed by		18 82	1 4	4: 13
Totel	73	100	3	17

This shows accidents to a total of 203 trains, of which 43, or 21.2 per cent., were passenger trains, and 160, or 78.8 per cent., were freight trains. As has been before noted, this is probably above the real proportion of passenger trains, as slight accidents to freight trains are much likely to escape notice than those to passenger trains nch m

Of the total number of accidents 93 are recorded as happening in daylight, 50 at night, while in one case only there is nothing in the record to indicate the time of day. The proportion of night accidents is small.

persons killed and injured are divided as follows :

Employés Passengers	. 38	Injured.	Total. 103 75
Total	42	136	178

The large proportion of employes among the killed shows The large proportion of employes among the kinet obtained learly how they occupy the post of danger in an accident.

Of the 59 collisions, 14 caused death and 19 lesser injury:

all 27 accidents caused the death of one or more persons, while 30 caused injuries, but not death, leaving 87, or 60.4 per cent, of the whole number, in which no serious injury

persons is recorded.

August is the last of what are usually called the sumi months, and the three months of that season compare with last year as follows :

	-Accidents.		Killed		Injured	
June July August	119	1882. 72 92 139	1883. 38 57 42	1882. 35 18 46	1883. 95 204 136	1882. 193 56 218
Total	354	303	137	99	435	467

The comparison for this year is decidedly unfavorable except in the number of injured, which may be changed easily by one or two bad accidents.

The month was not, upon the whole, unfavorable to rail-roading as far as the weather was concerned. It was, in most parts of the country, somewhat dryer and cooler and with fewer violent storms than usual, the earlier summer months having had more than their share of cyclones and thunder storms, and August somewhat less,

The comparative freedom from accidents resulting from elemental causes, was, however, more than made up by the ncreased number of what may be called accidents of management. The number of collisions was large, and of these an unusual proportion were butting and crossing collisions. Collisions, with but few exceptions, are accidents of manent, but the butting and crossing collisions nece come from carelessness somewhere, either in the general or the immediate executive management, the station operator or the trainmen. The general management may neglect to provide proper signals, or its rules and methods may be defective; the Superintendent or the train dispatcher may make a blunder; the operator may forget or misinterpret an order, and the trainmen may forget it or neglect to obey it when received, but one or more of these deficiencies there must be before the collision can occur.

The overworking of employés is often referred to as a cause of accident, and probably with truth, although there is apt to be exaggeration in popular ideas on the subject. One of the worst accidents of the month, if the reports are correct, resulted from the blunder of an operator who was but a boy of 17, too young for the responsibility put upon him, and who had been on duty for over 14 hours made the fatal mistake.

So much has heretofore been said about misplaced switches, that it is only necessary to note here that they caused last month 8 collisions and 9 derailments, 17 accidents in all.

The six broken axles and the eight collisions resulting from the breaking in two of trains may call attention again to the inadequacy of running gear and couplings to the heavy car-loads and long freight trains of the present day.

But one malicious derailment is recorded, and it was ef fected by the removal of the fastenings from a rail, leaving a gap in the track.

For the year ending with August the record is as follows:

	Accidents.	Killed.	injured.
September	153	34	136
October		47	132
November		36	129
December		29	209
January	168	55	199
February	18+	61	186
March	:42	13	137
April	106	26	114
May	120	28	77
June		38	95
July		57	204
August		42	136
	Mineral Institute	-	
Total	1,636	466	1,754
Total, same months, 1881-82	1,323	407	1,558
" 1880-81	1,461	394	1,518
44 44 14 1800-80	801	(2:34)	054

The yearly average for the four years was 1,328 accidents, 377 killed and 1,446 injured, which is considerably below the totals for this year.

The averages per day for the month were, 4.65 accidents, 1.35 killed and 4.81 injured.

The average casualties per accident were, for the month 0.292 killed and 0.944 injured; for the year, 0.285 killed and 1.072 in jured.

The averages per month for the year were 136 accidents, 39 killed and 146 injured. August was above the average in the number of accidents and the number killed, but below it in the number injured.

Memphis to Kansas City.

The Kansas City & Mamphis line about to be opened by the Kansas City, Fort Scott & Guif Company makes a route different from any that has existed heretofore, on which the current of traffle, be it large or small, will different from any that has heretotore existed. Further north every traffic centre was early supplied with a railroad extending northwestward from it. In-deed, the idea of a traffic centre in this country is of a place which receives traffic from lines radilnating west of its meridian—to the west, the northwest, the southwest, the north, the south. Cincinnati, the first of the important Western traffic centres, depended upon the rivers for connection with the Southwest, and until very recently went without a direct connection with the So but it early obtained lines throughout the quadrant from the west to the north. St. Louis, another river town, had more extended liver connections, which delayed its railroad system, but its first westward were to the west and n lines t. Westward were to the west and north-y: west, and the northwestern quadrant is much better sup-and plied with railroads than the southwestern, in which the In Iron Mountain has been completed across Arkansas but westward

about ten years, and has had no branches there until very y. Chicago also developed lines to the northwest very 7. But in the South lines to the northwest have been developments. Even New Orleans has had one only about a year, and Memphis, which was one of the most promising young towns in the country before the war, has not had any till now. At New Orleans we may account for this by the fact that the Red River served to connect it with the country northwest of it; but at Memphis other influences came into play. There the course of traffic is probably no greater directly eastward to the sea-board than northeastward, either up the Ohio or by rail to a connection with the trunk or by rail to a connection with the trun-lines. The great domestic market for Souther as well as Northwestern productions is in the Northeast-Southern north of the Potomac and east of the Ohio, roughly speaking, within a line from the Chesapeake to Lake Erie far enough south and west to take in Baltimore, Washington, Wheeling, Pittsburgh and Cleveland. The cotton that Memphis receives from the northwest would be as likely to be shipped northeast as east or south, so that a line directly to the east or to the northeast may make a shorter outlet from the plantation than one southeast to Memphis. Again, the cotton production does not extend far north of the latitude of Memphis, and it is not a market for the export of the grain and provisions raised further north.

It may be said, however, that Memphis has had and has no rail connection with the country southwest of it, which is all a cotton country, and that the new road gives it a line to the northwest before it has one in any other direction beyond the Mississippi, except to the west. It does, how-ever, receive some freight from the Iron Mountain road by way of the Memphis & Little Rock; but the further south we go from Memphis the greater becomes the competition of New Orleans. As, however, St. Louis by means of a railroad has succeeded in getting a great amount of cotton from the country far south of Memphis, it would seem that Memphis should also be able to meet New Orleans competition for the production of this country, if provided with a line inter ested in carrying to it only—such a line as a southwestern extension of Memphis & Charleston, the Louisville & Nashville, or the Chesapeake, Ohio & Southwestern would be.

But as the country grows and local interchanges increase lines are required which run counter to the prevailing course of traffic. Any where in the Northwest a line such as that between Memphis & Kansas City, having so large a country without railroads on its line, would be well supported by the local traffic. From the Iron Mountain road near the St. Francis River to the St. Louis & San Francisco at Springfield, a distance of about 180 miles, it is crossed by no railroad, and most of this distance it is more than 100 miles to any other railroad on the southwest and from 40 to 100 miles on the north. Between Memphis and the main line of the Iron Mountain road, about 80 miles, it is crossed by two new roads, the Helena Branch of the Iron Mountain and the Texas & St. Louis, and by the navigable St. Fran

On the whole line from Springfield to Memphis, the population by the census of 1880 within 20 miles of the road was only about 108,000, which is just about the same as that of the eastern tier of six Kansas counties south of the Kaw River through which the main line of this road runs, which have but 3,000 square miles of area, against 10,000 square miles in the belt 40 miles wide from Springfield to Memphis This thinness of the population accounts for the absence of railroads heretofore in so extensive a territory. The average township six miles equare has less than 390 inhabitants. On the main line the average per township is 1,300. The railroad will doubtless cause a growth, but perhaps not a great On the Iron Mountain road in Arkansas, after the one. On the Iron Mountain road in Arkansas, after the road had been open six years and more, and through a better part of the state, the population in many counties on its line was below 400 per township. The counties on its line increased in population from 158,057 to 218,689, or 38 per cent., from 1870 to 1880, according to the census, it is true; but the census of 1870 was extremely imperfect in this and other. Southern states was extremely imperfect in this and other Southern states. and evidently did not make the population large enough then. Moreover, the increase reported in the counties away from the Iron Mountain's line, in which scarcely any railroad had been opened during this decade, was from 326,414 in 1870 to this decade, was from 326,414 in 1870 to 583,836 in 1880, or 79 per cent., more than twice as fast as on the new railroad, so that, so far as these figures indicate anything, growth of population was not stimulated by the railroad. And probably it was not much. The Iron Mountain's traffic and earnings grew very little until 1879 and then when they began to grow fast it was largely and probably chiefly due to the growth of Texas and the great extension of the Texas railroads of which it is the outlet.

The Iron Mountain, however, had almost from the first traffic enough to support a sailroad of moderate cost. Then it had, what the new railroad will have, an immense area of thinly peopled territory to support it. The through traffic between Memphis and Kansas City, can hardly be very great at this time, but will grow. Corn, flour, provisions and manufactured goods are what Memphis takes from the North. Kansas City and the country on the western part of this road produce great quantities of grain and provisions and will certainly get a share tities of grain and provisions, and will certainly get a share of the trade, but they must compete for it with all the country along the Mississippi and the Ohio, which also produce their steples for export, and have the cheap river transportation to help them. What Memphis can ship to Kunsas City it is not so easy to see. It cannot compete with St. Louis. Chicago, and the Eastern cities in merchandise, and Kansas and Western Missouri do not want cotton. The

sugar, coffee and tropical fruits that may come from New Orleans by this route cannot make an important amount of freight. The road will probably depend chiefly—more even than most roads—on its local traffic, which so wide a belt of country, even if it is not very productive, ought to supply abundantly.

Erie Earnings in May and June.

The statement of the New York, Lake Erie & Western for May, we learn, does not include under "grossearnings" the total earnings of the leased New York, Pennsylvania & Ohio, but only the 68 per cent. of them to which the lesses is entitled (in case the other 32 per cent. are enough to make a sum equal to the net earnings of 1882). But the whole of the working expenses are given under that head, so that what is reported as net earnings is the true net earnings of the New York, Lake Erie & Western Company of the New York, Lake Eric & Western Company
after paying rental. The published statement for
this year, therefore, gave less than the actual
gross earnings of the united roads by 32per cent. of the New York, Pennsylvania & Ohio earnings, the amount of which was not given; and therefore all our comparisons of both gross and net earnings with those of previous years are vitiated. The net earnings reported this year are smaller than the aggregate net earnings of the two roads by the amount of the rental, or rather by 32 per cent. of the gross earnings of the New York, Pennsylvania & Ohio, which is the minimum rental. Should this not be sufficien which is the minimum rental. Should this not be sufficient in the course of the year to make a sum equal to the net earnings last year (\$1,757,055) the difference will have to be paid by the Erie; but of course the result of a single month's earnings cannot determine this, as profits will be larger than the average in some months and smaller in

An accurate comparison of the results of working the united roads can be made by adding 68 per cent, of gross earnings of the New York, Pennsylvania and Ohio previous years to those of the Erie, and subtracting the aggregate working expenses of the two roads from them. This will give the receipts and profits of the Erie as they would have been had the lease been in operation previous to this year, as follows, for May

1878	Receipts. \$1,368,404	Expenses. \$1.165,599	Profit. \$202.805
1879		1,.:40,050	226,081
1880	1,828,262	1,250,419	577,843
1881	2,096,741	1.591,287	505,454
1882	2,003,284	1,341,560	661,724
1883	2,055,988	1,424,933	631,055

Thus the profit this year is nearly the same as last year. and greater than any previous year, and not less the any since 1879, as the comparison last week indicated.

Care must be taken not to take these figures for anything out what they are. What we have given as "receipts" are not gross earnings, but considerably less, but the "expenses" are the full working expenses, and are therefore a much larger proportion of the "receipts" here given than of the total gross earnings. For instance, last year the aggregate working expenses of the two roads in May were 62% per cent. of their aggregate gross earnings; by the method of reporting used by the Erie they would have been nearly 67

It should be said that the New York, Lake Erie & Western has always reported in this way the earnings of such roads as it leases for a percentage of their gross earnings, which include the Northern New Jersev and the Buffalo & Southwestern. The gross of earnings of these, however, do not average more than \$50,000 or \$60,000 a month, and the difference between giving the gross earnings less the rental and the total gross earnings is probably only about \$20,000 per month, whereas with the New York, Pennsylvania & Ohio it has amounted to \$175,000.

As a means of estimating the financial position of the Erie, the statement of "net earnings," as it renders them, is perfectly good. It eliminates the liabilities on account of the New York, Pennsylvania entirely, or as completely as possible, while the results of the entire year's operations of that road are unknown. What is reported as "net earning" is substantially that amount which the company has to apply to other purposes than New York, Pennsylvania & Obio rental, which so far as ascertainable, has already been deducted.

Since wri.ing the above we have a report of the gro earnings of the New York, Pennsylvania & Obio in May, They were \$582,080, and \$109,306 more than last year. Taking 68 per cent. of this from the earnings reported by the Erie for May, we have \$1,660,174 as the gross earnings of the Erie on its other roads, which is \$21,624 less than last year, and \$116,716 less than in 1881, but more than in The aggregate gross and net earnings any previous year. of the two roads were :

1880. 1881. 1882. 1883. 1881. 2582. 1883. Expenses 1,250,419 1,591,2 7 1,341,500 1,424,933 Net earnings... \$681,569 \$855.972 \$813,0:2 \$817,321

This makes the net earnings slightly larger this year than last, and about 4 per cent. less than in 1881. The earnings of the New York, Peunsylvania & Ohio were the largest this road has ever had, and the 33 per cent, paid as rental is \$186,266, which is about \$40,000 more than the monthly minimum rental guaranteed by the lessee. The traffic which the Chicago & Atlantic has given to the road is likely to have still further increased the gross carnings

since May.

We have now the Erie statement for June, made as for May, with but 68 per cent. of the New York, Pennsylvania May, with but 63 per cent. of the New York, Pennsylvania eight railroads for the week ending Sept. 14, by the com- & Ohio earnings included in the gross earnings. Making plete report, were 49,731 tons, which is a trifle less than by

a comparison with a similar statement for previous years the figures are :

Receipts Expenses	\$2,399,132 1,370,153	1882. \$2,070,234 1,420,600	1883. \$2,057,547 1,441,825
Net The " net" ber			\$615,722 what the
Erie's net earnin Pennsylvania &			

the terms of the present lease Its actual net earnings have been:

1880. \$716,108 1881. 731,230

They are this year about 10 per cent. less than last, 16 per cent. less than in 1881, 14 per cent. less than in 1880, but 112 per cent. more than in 1879, and more than the average monthly net earnings last year. The rental of the New York, Pennsylvania & Ohio is already deducted, it must be mbered.

This makes the net earnings (over rentals of lines leased for a percentage of their earnings) as follows for nine months of the fiscal year ending with June in the six years since the reorganization:

1877-78, 1878-79, 1879-80, 1880-81, 1881-82 1882-83, \$3,673,207 \$3,339,915 \$5,137,210 \$5,683,920 \$4,601,053 \$4,603,414 They are this year very nearly the same as last, \$1,090,508 (19 per cent.) less than in 1881, \$533,796 (10.4 per less than in 1880, and very much more than in the other two years.

The three months of the fiscal year which remain to be reported were the best months of last year. To do as well as then will be doing very well indeed.

Record of New Railroad Construction.

This number of the Railroad Gazette contains informaion of the laying of track on new railroads as follows:

Atchison, Topeka-& Santa Fe.—Track laid on the Kansas

City & Emporia Branch from Emporia, Kan., east to Necsho Rapids, 11 miles. Atlantic & Danville.—Track laid from Claremont Wharf

, westward 5 miles.

Chicago, Milwaukee & St. Paul.—The James Ricer Branch is extended from Ashton, Dak., south to Wolsey, 41 miles. The Okoboji Branch is extended from Lake Okoboji, Ia., north to Spirit Lake, 7 miles.

Columbus, Hope & Greensburg.-Track laid from Greens burg, Ind., west to Hope, 17 miles.

Florida Southern.—Extended from Gainesville, Fla.

northwest to Hague, 11 miles. Gauge, 3 ft. Georgetown & Lanes.—Track laid from Georgetown, S. C.,

westward 20 miles.

Kanawha & Coal River.—Completed from Davis Creek., V. Va., southward to Black Band mines, 15 miles. New York, West Shore & Buffalo.—Extended from Syra-

cuse, N. Y., west 40 miles; also from Akron, N. Y., cast 20

Northern Pacific.—Track is laid on the Pacific Division from Portland, Oregon, north to Lenore, 41 miles. The Fargo & Southwestern Branch is extended from Lisbon, Dak., west by south to Lamoure, 30 miles. Texas & St. Louis,—The Magnolia Bran

olia Branch is con from McNeil, Ark., southward to Magnolia, 7 miles. Gauge: 3 ft

-A branch has been completed from Transfer station into Council Bluffs, Ia., 1) miles. The Oregon Short Line is extended from Kuna, Idaho, northwest to Caldwell, 15 miles.

Vicksburg, Shreveport & Pacific. - Extended from Monroe,

La., westward 21 miles. Gauge, 5 ft.
Wisconsin, Pittsville & Superior.—Track laid from Remington, Wis., north to Dexter, 6 miles.

This is a total of 308% miles of new railroad, making 3,995 miles thus far this year. The total new track reported in our columns to the corresponding date for 12 years past has en as follows

	Miles.	Miles.
1883	3,995 1877	1,390
1882	7.285 1876	1.677
1881	4,774 1875	804
1880	3,607 1874	1,396
1879	2,224 1873	2,778
1878	1,267 1872	4,970

The statements include main track only, no account being taken of second tracks or other additional tracks or sidi This week's report is about the largest we have had this year, and brings the total for the year thus far very nearly up to 4,000 miles.

THE INCREASE OF FREIGHT TONNAGE ON NEW YORK RAILROADS from 1874 to 1882 we gave last week a per cent., while the increase in tonnage mileage was 76 per cent. The increase in number of the cent. cent. The increase in number of tons carried was taken from the pamphlet referred to, in which the number on the Pennsylvania Railroad in 1874 was given as nearly 29 millions of tons, when actually it was but 16½ millions. In our table a correction was made for the Pennsylvania tonnage, but not for the aggregate tonnage of the six roads in 1874, which should have been 38½ millions instead of 50%. The amount of increase in tons from 1874 to 1883 we gave correctly, but the percentage of increase was 96 per cent, instead of 72.7, and therefore the rate of increase in freight traffic or tonnage mileage (76 per cent.) was much less and not a little greater than the increase in tons carried, showing that there was a much greater increase in local freight, or rather in short bauls, than in freight over the whole length

CHICAGO THROUGH RAIL SHIPMENTS EASTWARD by the

the incomplete report for the week ending one day later, instead of 10 or 12 per cent. more, as is usually the case. For four successive years the shipments in this week have

1880. 31,260. 1881. 64.765. 1882. 36.878.

Thus the shipments this year were 12,853 tons (35 per cent.) more than last year, when rates were the same, 15,084 tons less than in 1881, when rates were but half as great, and 18,471 tons more than in 1880, when rates were a fifth higher. The two new roads carried 12,556 tons, so that the six old roads carried nearly the same as last year (297 tons more) and much more than in 1880.

The percentage carried by each road this year and last

	C	M	La	Ft	C	W	S	125
	Se.	ch	Re	=	200	PP	ñ	K
	9		200	0.7	1	0	PP	0
	H	e e	0	DE A	-		>	
	- :		3	:	85	:		54
		1	1	1				OL et
			:	1		1		-
		:		- 1	:	1	:	:
1883	10.0	12.8	14.9	21.7	9.0	6.3	14.7	10.
1882	14.3	21.1	21.5	28.3	7.8	7.0	****	

Compared with the previous week, there is a decrea percentage of 2.5 by the Chicago & Atlantic and of 3.1 by the Chicago, St. Louis & Pittsburgh, and smaller decreases by the Michigan Central, and the Baltimore & Ohio. The increases were 3.3 by the Nickel Plate, 1.7 by the Fort Wayne, and 1.3 by the Chicago & Grand Trunk, and 0.5 by the Lake Shore.

For seven successive weeks the shipments have been:

Week ending.

Week ending.

Nug. 14. Aug. 21. Aug. 31. Sept. 7. Sept. 14. 24,453 33,487 32,432 38,500 39,465 46,947 49,731

The increase over the previous week was thus much more moderate than was indicated by the incomplete reports telegraphed from Chicago—only 2,784 tons, or 6 per cent. The shipments were, however, among the very largest ever made while rates were maintained and navigation was

For the week ending Sept. 29 the imperfect report of For the week ending Sept. 22 the imperfect report of through and local shipments of flour, grain and provisions by these roads gives a total of 48,254 tons, against 35,611 tons in the corresponding week of last year and 49,624 in the previous week of this year. There is thus a slight decrease from the previous week. It was not to be expected that shipments should continue to increase; they remain unusually large. The changes from the percentages reported for the previous week are considerable, the chief being a decrease of 3.8 on the Chicago & Atlantic, exactly balanced by an increase of 3.8 on the Baltimore & Ohio, and gains of 1.6 on the Chicago & Grand Trunk and of 0.9 on the Lake Shore; balanced by losses of 2.2 by the Fort Wayne and 0.3 by the Michigan Central. There is no change on the Nickel Plate and the Chicago, St. Louis & Pittsburgh. The Michigan Central's proportion remains, as it long has been, exceptionally small, the Nickel Plate carrying just as much. These percentages, however, in the imperfect report may be considerably modified in the complete one. Below we give the true percentages from the complete reports for all the weeks since July except the last one, for which the figures are from the incomplete report:

Week to	C. & G. T	Mich. Cen	Lake Shore	Ft. Wayne	C., St. L. & P.	Balt. & Ohio	Chic. & Atlan	N. Y., C. & St. L
Aug. 7	12.5	15.3	15.9	22,5	11.9	8.6	8.0	5.3
14	10.0	14.2	16.3	22.2	11.1	7.8	136	4.8
11 21	11.8	13.7	15.8	20.5	13.9	6.3	13.8	4.2
31	11.8	10.2	13.2	21.0	17.7	6.6	13.5	4.0
Sept. 7	8.7	13.7	14.4	20.0	12.1	6.6	17.2	7.3
f. 14	10.0	12.8	14.9	21.7	9.0	6.3	14.7	10.6
" 22	13.4	11.6	19.6	12.6	10.4	9.8	11.0	11.6

The two old Vanderbilt roads have had extremely small percentages of the whole all this time, considering that under the last apportionment they were awarded 45% per cent. of the traffic and under the old one 49 per cent. The Lake Shore makes a considerable gain in the last week (by an incomplete report, it must be remembered), but the Michigan Central is below the average of the six we previous, even, which average was 18.3 per cent. Nickel Plate has made a very decided gain, however, but what it carries may not have been for the New York Cen-tral. The Fort Wayne shows an unaccountable falling-off in the last week.

The shipments since Sept. 7 will be of especial interest in view of the action taken to prevent any irregularities of rates at about that time.

COLORADO TRAVEL, we showed last week, was 85 per cent. less in the first half of this year than in the corresponding period of last year, as shown by the passenger earnings of the Colorado pool, which includes all travel be-tween the Missouri River and Denver. Further evidence of a decline in Colorado business is shown by a lumber dealer reporting the condition of the lumber trade in Denver to the Northwestern Lumberman. He says that for this year sales have been at least 30 per cent, less than last year.

IMMIGRATION IN AUGUST was not much less this year than last, which may indicate that the rapid decrease of a year or two past will not last much longer. The arrivals this year were 38,388, against 43,076 last year and 56,744 last in 1881.

Arrivals of immigrants in August were exceeded in September and October last year and the year before; but

much the largest arrivals are usually in April, May and June. In 1891 48 per cent. of the arrivals were in this 25 per cent, of the year, and in 1882 46 per cent.

PENNSYLVANIA RAILBOAD EARNINGS AND EXPENSES IN and last were:

Net earn.....\$2,142,624 \$2,032,862 Inc. \$109,762 5.4

The changes from last year are small, but are in a favorable direction. There had been a decrease in net earnings in June and May, amounting to \$509,000, which is thus interrupted, and that in a month when last year the earnings were the largest for many years.

For eleven successive years the gross and net earnings and working expenses of this road in August have been:

	Gross earnings. Expenses.	Net earnings
1873	.\$3.415,271 \$2,257,910	\$1,158,361
1874	. 3,303,931 2,137,747	1,166,184
1875		1,281,678
1876		1,597,457
1877		1,174,018
1878		1,486,551
1879	. 2,982,718 1,725,718	1,257.000
1880	. 3,723,355 2,168,874	1,554,481
1881	. 3,809,978 2,365,472	1,444,506
1882		2,032,862
188 3	4,775,380 2,632,756	2,142,624

Thus though the increase in gross earnings over last year is small, it is \$965,000 (25 per cent.) over 1881, and the gain in net earnings over that year is \$698,000, or 48 per cent The gross earnings last August were, indeed, the largest the road has ever had in any month of any year, and the net earnings are the largest except in September and October, 1876, the two months of heaviest Centennial travel. The gain over July this year is no less than \$650,000, or 43 per cent. There is usually a considerable increase in August over July, but it is extraordinary this year, and indicates an unusual revival of traffic.

For the eight months ending with August the earnings and expenses of those lines east of Pittsburgh show the following increases over last year: \$1,787,784 (5.7 per cent.) in gross earnings, \$1,503,626 (7.7 per cent.) in working expenses, and \$284,108 (2.4 per cent.) in net earnings. For seven successive years these have been for the eight months:

Year.	Gross earnings.	Expenses.	Net earnings.
1877	\$18,999,848	\$12,617,050	\$6,382,798
1878	19,961,272	12,377,660	7,883,612
1879	21,179,685	13,077,215	8,102,470
1880		15,654,678	10,951,396
1881	29, 14 (,240)	17.210.607	11,932,633
1882		19,601,299	11,869,879
1883	33,248,912	21 104,925	12,153,987

All are larger this year than ever before, but in net earn ngs there has been little change for the last three years

For these eight months the lines west of Pittsburgh and Erie show a surplus over all liabilities of \$557,180, which is \$64,722 less than last year. For five successive years the surplus or deficit of these lines for the eight months has been:

1881. Surplus, \$2,160,087 Surplus. \$1,879,249 Surplus, \$621,902 Surplus \$557.180 Adding this to the net earnings of the have as the profits of the Pennsylvania Railroad Company

from these two systems: 1879. 1880. 1881. 1882. 1883. \$7,865,616 \$12,830,645 \$14,092,720 \$12,491,781 \$12,711,167 Showing that there is little difference in the profits of 1880, 1882 and 1883.

The surplus of the western system in August has been in

ch of these five years:
1879. 1880.
85,904 \$267,286 1881. \$355,777 1882. \$266,872 1879. \$185,904 \$247,490

The changes, considering the vast extent and large grand net earnings of this system, are inconsiderable. surplus for the month, it appears, was four-fifths that of the entire six months previous.

The statement for the whole property for August is an unexpectedly favorable one, showing, as it does, larger gross and net earnings than in any previous year.

THE SCRAP HEAP.

Locomotive Building.

Locomotive Building.

The Hinckley Locomotive Co. in Boston is building locomotives on orders from the Canadian Pacific, the Chicago, Burlington & Quincy and the Grand Truok companies.

The Taunton Locomotive Works in Taunton, Mass, are busy, with several orders of locomotives to be filled.

H. K. Porter & Co., Pittsburgh, have a number of light locomotives in progress, and their shops are well occupied.

The Pennsylvania Railroad shops at Altoona, Pa., are uilding a number of new standard passenger cars for the

oad.
The Pittsburgh, Fort Wayne & Chicago shops in Alle-beny, Pa., have just completed a very hundsome and well-urnished private and business car for the use of Manager

Baldwin.

The Intercolonial shops in Moncton, N. B., are building two flangers, one wing-plow and two snow-plows for the

road.

Mr. A. J. Twiggs, contractor for the Georgetown & Lanes road, has recently built at Georgetown, S. C., 50 freight cars for the road.

Bridge Notes

The Smith Bridge Co. in Toledo, O., has taken the contract for the bridge over Rifle River in Michigan, on the new Detroit, Bay City & Alpena road. The bridge will have one span of 150 ft. and one of 100 ft., and will be 70 ft. above the river.

Iron Notes

The Thomas Iron Co. at Catasaugus, Pa., has elected the following directors: Benjamin G. Clarke, Samuel Thomas.

William W. Marsb. John T. Knight, Charles Stewart, Daniel Runkle and Samuel Drake.

The stockholders of the Co-operative Iron & Steel Works, of Danville, Fa., will meet on Oct. 6 to consider a big change in the nature of the corporation. It is proposed to accept the provisions of the new Constitution and the incorporation act of April 29, 1874, changing the name of the company to the Danville Steel Co. The feeling among the stockholders is reported to be strongly in favor of the change. American Manufacturer.

A feat unparalleled in the bistory of rail rolling was accomplished at the steel rail mill of the Scranton Steel Co. Steel rails 120 ft. long were rolled direct from the soaking pit. This has never before been done either in Europe or America. Rails have been rolled direct from the pit, but not 120 ft. in length.—North American.

The Clymer Iron Co. in Reading, Pa., has been reorganized with Hiester Clymer President and Abraham Sweitzer Secretary.

Secretary.

The North Chicago Rolling Mill Co. will soon add to its works at Bay View, Wis., a large nail mill.

The Black Band Coal & Iron Co. has completed a blast furnace on the Kanawha River at the mouth of Davis Creek, near Charleston, W. Va. The furnace is making 30 tons of iron a day.

Manufacturing Notes.

Manufacturing Notes.

The Penfield Block Co. in Lockport, N. Y., states that the loss sustained by the recent fire immediately adjoining the the works was not of such a nature as to retard the prompt filling of all orders. The company also desires to state, for the benefit of others, that this is the second time these works have apparently been preserved from very serious loss by fire, by the use of pails and casks kept in the works and always filled with water. These were ready for use at the critical moment, a new illustration of the old saying, "a stitch in time saves nine."

The Pond Machine Tool Co. in Worcester, Mass., recently shipped to Pittsburgh a very heavy lathe. It weighs 35 tons and can take in work 5 ft. in diameter.

The Western Union Wire Fence Co., recently organized, has its works in St. Louis now in full operation.

The French Spiral Spring Co., which is building a large mill between Twenty-fifth and Twenty-sixth streets, below Penn avenue, are drilling a well for gas. This will be one of the largest spiral spring works in this country, and will be provided with the most improved machinery.—Pittsburgh American Manufacturer.

The Linn Iron Works in Birmingham, Ala., have just completed a plate shearing machine weighing 40 tons, which will shear a plate 75 in. wide.

The Rail Market.

Steel Rails.—The only sales reported are of small lots, for which quotations are \$87 to \$88 per ton at mill. Some large orders are reported to be on the market, but the buyers are not willing to go over \$36, and none have been placed

are not wining to go over \$8.50.

Rail Fastenings.—Spikes are unchanged at \$2.60 per 100 lbs. in Pittsburgh, where also track-bolts are quoted at \$3 per 100 lbs. for square nuts, and \$3.20 to \$3.25 for hexagon. Spice-bars are steady at 1.9 cents per pound.

Old Rails.—Philadelphia quotations are \$23.25 to \$23.50 per ton for iron rails, with few sales. A sale of old iron rails at \$23.50 in Pittsburgh is reported.

The Lead-lined Journal Box Patent.

The Lead-lined Journal Box Patent.

In his recent decision in the interference case between Tennis V. LeRoy and David A. Hopkins, the Commissioner of Patents has awarded to LeRoy priority for the peculiar arrangement claimed by bim, but the broad claim of Hopkins, upon which priority of invention is awarded to him, seems to cover the case and leave him substantially in command of the field. In his final decision, rendered Aug. 31, the Commissioner says:

"On the broad claim as well as the specific claim covering the device embodying not only the broad but the specific invention of a journal-bearing with a soft metal lining with ridges or projections so arranged that, upon being brought in contact with the axle, the ridges or projections will yield and be spread out so as to make a perfectly fitting box, priority of invention must be awarded to Hopkins."

The Baltimore & Ohio Employes' Relief Associa-

The August statement of this association shows the payment of benefits to 724 members in all, as follows: Main Stem, Transportation Department, 80; Machmery Department, 231: Road Department, 95; Trans-Ohio Divisions, 113; Pittsburgh Division, 70; physicians' bills, 185 The benefits paid for sickness varied in amount from \$0.50 to \$130; the payments for deaths from \$200 to \$1,000. It is the practice of the Association to issue monthly a large sheet containing the names of all those to whom benefits were paid during the preceding month, with the nature of the injury or sickness in each case. This sheet is posted in stations, shoos and other points, and members are invited to send to the officers criticisms of any case where they may consider that benefits were not justly made. This seems a very effective check on fraud.

The Automatic Freight Car Brake.

The Automatic Freignt Car Brake.

The American Brake Co. in St. Louis announces that the price of its automatic freight car brake is \$15 per set. To all companies contracting for this brake for their entire freight equipment before June 30, 1884, a discount of 20 per cent. will be allowed, and on all contracts made between July 1 and Dec. 31, 1884, an allowance of 10 per

cent.

The price of the locomotive driver brake will be continued at \$150 per set for the horizontal cylinder pattern, and \$175 for the vertical. These brakes are now in use on over 1,200 cars and a number of engines.

The Accident Near Berlin.

European papers just received give the following details of the recent railroad disaster at Steglitz, a village about three mites from Berlin, Germany, on the Potsdam-Magdeburg-Cologne Railwayline:

The fine Sunday weather had tempted to the place, as to all other suburban resorts, crowds of pleasure-seekers of the poorer class, including some patriotic societies, to celebrate the anniversary of Sedan. At the close of the day the station was besieged by several hundreds of the excursionists, eager to get home by the first train from Potsdam. The station at Steglitz is furnished with insufficient waiting accommodation, and passengers going to Berlin have to cross the rails in order to enter the up trains. Until the up trains arrive, it is usual to detain Berlin-bound passengers on down the platform, by means of a movable barrier, such as is used at most crossings; and behind this barrier last night; toward ten o'clock, an impatient crowd of 200 or 300 people were waiting for the train that was to take them home to Berlin. The train arrived, and, eager to secure seats, the excursionists either burst, or jumped, or pushed back the barrier-poles, and began to stream across the rails like a flock of sheep. This thay did

in spite of the shouts, remonstrances and lantern waving of the railway officials—of whom, however, it is said that there was an altogether insufficient number—who saw, to their horror, that the Cologne express from Eerlin was tearing down upon the station at the rate of a kilometre per minute. There was one heartrending and unanimous shrick which silenced even the thunder of the approaching wheels, the heavy engine dashed in among the wedged and struggling, mass, and in another instant the line was strewn with the horribly mutilated and dismembered bodies of some 40 human beings.

For a distance of 100 yards the line was covered with bodies, all shockingly mutilated, and human fragments. Of one family of five persons only one boy escaped. The killed include four married couples, five members of the Shooters' Company, with the flagbearer and three artillery corporals. One of the latter had both legs and his heavy sabre cut through as with a knife. One girl had nearly reached the local train when the draft caused by the express threw her under the locomotive. One woman had both legs cut off, and on being carried into the waiting-room gave birth to a dead child and expired. Another woman and a sailor in the Imperial Navy were completely decapitated, and no vestiges of the heads have been found. A child had one hand cut off, and one body was entirely divested of clothing.

The driver of the express train had to be relieved, being unable to proceed after witnessing the scene of carnage. His locomotive was covered with pieces of flesh, bones, rags, and drenched with blood. The line remained blocked for hours, while detachments of firemen and soldiers gathered the remains of the victims by torchight.

Eight Clerks to make the Freight Receipt.

correspondent of the Indian Railway Service Gazette

A correspondent of the Indian Randway Service Gazette says:

"I had oreasion the other day to book goods from the goods shed at Madras. And I had to go to eight clerks before I finished with my work. Surely this, I should think, was quite unnecessary and useless, as all this work could have been done by two men instead of eight. Each of these eight men had only to write a few words, and some a few figures, and the eighth or last man had merely to sign his name to the receipt, which took seven men to make out. All these clerks, I presume, are in receipt of monthly salaries for doing but very little, according to what I have seen done on that day with my goods. Is this one of the many reasons why the Madras Railway does not pay? I am certain that it does not take eight clerks to book a box or bundle of goods on any other line in India save the Madras Railway."

or bundle of goods on any other line in India save the Madras Railway."

Narrow-Gauge Houses.

A correspondent of the Indian Railway Service Gazette, complains bitterly of an advance in the rents of the "bungalows" provided for dwellings of employés of the Rajputana State Railway. For quarters which consist, he says, of two small rooms and three ill-constructed, rickety out-offices, the employés are to pay 20% rupees per month (about \$9.55), while some of them only receive 60 rupees (\$27.73) per month. Moreover, it is altogether out of proportion to the rents charged the officers of the railroads. These, receiving from \$231 to \$277 per month, are supplied with dwellings having nearly three times as much room and a large number of out-offices and stabling for 35 rupees (\$16) per month. The bungalows, he says, are not nearly so well built or commodious as those on the East Indian Railway, and the rents are nearly twice as great as they need to be. On this the Railway Service Gazette comments as follows:

"We have seen the bungalows provided for the men upon the Rajputana State Railway. They are certainly much smaller in every respect than those provided by the East Indian Railway for their employés; but then that line is broad gauge, whereas the State line is narrow gauge, and during its constructed in proportion: in short, everything was to be constructed in proportion: in short, everything on and about the railway, including the line itself, was to be metre gauge. The scheme evolved from men with metre brains, and we only wonder that they stopped short of obtaining metre-gauge parents with metre-gauge children to occupy the metre-gauge bungalows they provided. We do not know who may be directly responsible for the unjust order to increase the rents of these bungalows, but whoever he may be, he cannot be the fortunate possessor of broad-gauge ideas. To compel men to reside in dwellings, the rooms of which are barely large enough to swing a cat around in, and make them pay double the rent they would be asked for

General Railroad News MEETINGS AND ANNOUNCEMENTS.

Meetings.

Meetings will be held as follows: Cumberland Valley, annual meeting, in Harrisburg, Pa.,

Oct. 1. Evansville & Terre Haute, annual meeting, at the office in Evansville, Ind., Oct. 16 at 11 a. m. Transfer books close Oct. 5.

Dividends

Dividends have been declared as follows:

Chicago, Rock Island & Pacific, 134 per cent., quarterly,
payable Nov. 1. Transfer books close Sept. 29.

Chicago, St. Paul, Minneapolis & Omaha, 134 per cent.,
quarterly, on the preferred stock, payable Oct. 20. Transfer books close Sept. 29.

Dubuque & Sioux City (leased to Illinois Central), 3 per
cent., semi-annual, payable Oct. 15. Transfer books close
Sept. 29.

Sept. 29.

Lake Shore & Michigan Southern, 2 per cent., quarterly, payable Nov. 1. Transfer books close Oct. 2.

Manhattan, 1½ per cent., quarterly, on the first-preferred stock, payable Oct. 1 to stockholders of record Sept. 25, "provided the legal restraint prohibiting such payment is removed."

The General Time Convention will hold its fall meeting at the Grand Pacific Hotel in Chicago, Oct. 11.

The Southern Railway & Steamship Association will hold its ninth annual convention in Atlanta, Ga., Oct. 17.

The Southern Time Convention will hold its fall meeting at No. 46 Bond street, New York, Oct. 17.

The American Association of Railroad Superintendents will hold its fall meeting in Washington, Oct. 23.

The American Society of Mechanical Engineers will hold its annual meeting in New York, in the week ending Nov. 3.

Foreclosure Sales.

The property of the Washington, Cincinnati & St. Louis Co. was sold Sept. 25 at public sale, and bought for \$40,000 by Joseph S. Loose, of Bridgewater, Va., who is said to represent the creditors. The line in Virginia as projected was from Washington by Harrisonburg, Va., and Bridgewater to the West Virginia line near Monterey. No part of the road was ever built, and the property consists chiefly of the franchises and some right of way.

The Philadelphia & Atlantic City road was sold in Camedan, N. J., Sept. 20, under a decree of the Court of Chancery, and was bought for \$100,000 by Mr. George B. Kaercher, who, it is understood, represents the Philadelphia & Reading Co. In addition to the money paid, the purchaser assumes the payment of the Receiver's debts and liabilities. The road extends from Camden to Atlantic City, 55 miles, and had a funded and floating debt of about \$550,000. A new company will be organized at once, and the road will be put in good repair and changed from 3 ft. 6 in. to standard gauge.

Mail Service Extensions.

Mail Service Extensions.

Mail service has been ordered over new railroad lines as llows:

New York, West Shore & Buffalo, service ordered from ew York to Albany, to begin Oct. 1.

Joint Executive Committee Passenger Meeting

Joint Executive Committee Passenger Meeting.

A meeting of the Joint Executive Committee. Passenger Department, was held at the Commissioner's office in New York Sept. 25. The principal business on the first day was the adoption of a new pooling agreement in place of the one which expired Aug. 31. The new agreement is substantially the same as the old one, and is to continue only until Jan 1.

The Chicago & Atlantic and the Chicago, St. Louis & Pittsburgh roads were admitted as members of the Conmittee.

Some changes in differential fares are to be considered before the meeting adjourns.

New York Railroad Commission

New York Railroad Commission

The New York Railroad Commissioners met in New York Sept. 25 to hear complaints made as to excessive charges for commutation and local freights on the New York & Harlem line. A number of witnesses were heard, but no decision was made.

American Street Railway Association

American Street Railway Association.

Mr. W. J. Richardson, of Brooklyn, N. Y., Secretary of this Association, has issued the following circuler:

"The regular annual meeting of the American Street Railway Association will be held at the Grand Pacific Hotel in Chicago, Ill., the second Tuesday in October (the 9th), 1888, at 10 o'clock a. m.

"Papers will be read and discussed on the following subjects: 'Construction of Track;' 'Propelling Power;' Buildings;' 'Labor and Wages;' 'Collection of Fares;' Removing Snow and Ice;' 'Horseshoeing,' and 'Heating and Lighting.'"

New England Road-Masters' Association.

The first annual meeting of this Association was held at oung's Hotel in Boston, Sept. 20. There were 20 members resent and 16 new members were admitted during the

meeting.

After the preliminary routine business had been transacted officers for the ensuing year were elected.

After the election of officers a general discussion was had, no special papers having been prepared, on "Frogs—best for main and side tracks." "Suitches—best for main and side tracks." "Elevation of curves—outer rail elevated, or inner rail depressed; maximum limit of length; reversed curves." "Railroad ties—timber; thickness; position on curves." "Ballast—best for ties and rails; prevent heaving of track." "Joints—best for 60 and 70 pound rail."

Southern Railway & Steamship Association.

Notice is given that the Ninth Annual Convention of the Southern Railway & Steamship Association will be held at the office of the Association, in Atlanta, Ga., on Wednesday, Oct. 17, 1883.

Transportation companies, members of or working with the Association, are invited to send duly authorized representatives, as per Third Article of Agreement Jan. 17, 1883.

The Convention will be called to order at noon.

Master Car-Painters' Association.

A report of the first day's proceedings of the Annual Convention of this Association appeared last week.
On the second day, Sept. 20, the meeting was called to order by the newly-elected President, Mr John Rattenbury.
The reports of the President and Secretary were read and approved, showing the Association to be in a flourishing condition, with a good financial basis and a present membership of 110 master painters from all parts of the United States.

The meeting was chiefly devoted to the reading of papers on the subjects noted last week, and to general discussion and criticism of the papers.

on the subjects noted last week, and to general discussion and criticism of the papers.

The usual routine business was transacted, and a committee was appointed to prepare subjects for discussion for the next annual meeting.

It was resolved to hold the next convention in Boston on the first Wednesday in September, 1884. The convention then adjourned.

In the afternoon the members of the Association were taken in carriages to visit the parks and other places of interest in the city. On the following day, Sept. 21, they went in a body to Washington, where a banquet was given in their bonor by a number of the leading paint and varnish firms of the country.

General Baggage Agents' Association.

The semi-annual meeting of this Association was held at the Tremont House, Chicago, Sept. 20. The following mem-

"removed."

Railroad and Technical Conventions.

The American Street Railway Association will hold its next meeting in Chicago, Oct. 9.

The American Institute of Mining Engineers will hold its autumn meeting in Troy, N. Y., during the second week in October.

The New England Railroad Club will hold its regular monthly meeting at its rooms in the Boston & Albany passenger station in Boston, Oct. 10, at 7:30 p. m. All interested in railroad matters are invited to attend.

ton & Texas Central: H. A. Winter, Illinois Central; G. S. Venn, Indianapolis Union; F. H. Allen, Kansas City, St. Joe & Council Bluffs; R. R. Bentley, Fittsburgh, Fort Wayne & Chicago; J. J. Post, New York, Lake Erie & Western; W. I. Robinson, Ohio & Mississippi; M. Simons, Parmelee Transfer Co.; S. E. Dana, St. Paul, Minneapolis & Manitoba; Henry Starring, Chicago & Iowa.

The first day was devoted chiefly to the exchange of lists of unclaimed baggage and other routine work.

There was an informal discussion on claims for damages for baggage lost or stolen.

On the second day the question of immigrant baggage was discussed, and a resolution was passed requesting the General Passenger Agents' Association to limit the weight of immigrant baggage to 250 lbs, for one piece, as is the rule with that of first-class passengers. There was also a long discussion on the question of baggage checks.

It was decided to hold the next meeting in St. Louis on the third Wednesday of February next.

ELECTIONS AND APPOINTMENTS.

Chicago, Burlington & Kansas City.—Mr. M. B. Starring has been appointed General Baggage Agent, with office in Keokuk, Iowa.

Chicago, Burlington & Quincy.—Mr. Alexander Forsyth as been appointed Master Mechanic of the St. Louis Division. He was recently General Foreman of the Beards-

Cincinnati, Indianapolis, St. Louis & Chicago.—Mr. C. W. Norris has been appointed Traveling Passenger Agent, with headquarters at No. 121 Randolph street, Chicago.

with headquarters at No. 121 Randolph street, Chicago.

Cincinnati, New Orleans & Texas Pacific.—Mr. D. Ennis has been appointed General Baggage Agent of all the lines controlled by this company, with office in Cincinnati.

Mr. W. W. Wells has been appointed Superintendent of the Cincinnati Southern Division, with office at Somerset, Ky. Mr. Z. Jones has been appointed Master of Transportation of the Cincinnati Southern Division and Mr. J. E. Willis Chief Train-Dispatcher, with offices at Somerset, Ky. The office of train-master on this division is abolished.

Mr. D. H. Pardon has been appointed Master of Transportation of the Alabama Great Southern, the Vicksburg & Meridian and the New Orleans & Northwestern divisions, with office at Meridian, Miss. Mr. T. I. Hewlett is appointed Train-Master of the Alabama Great Southern Division, with office at Birmingham. Ala.

Mr. I. S. Williams is appointed Superintendent of the New Orleans & Northeastern Division, with office in New Orleans

Columbus, Hocking Valley & Toledo.—Mr. W. N. Colt has been appointed Treasurer in place of F. H. Medary, deceased. Mr. W. S. Pickering has been appointed Pay-

Denver & Rio Grande.—The board has elected Mr. Frederick Lovejoy President in place of W. J. Palmer, resigned. Mr. Lovejoy is a resident of Philadelphia, and was formerly General Manager of the Adams Express Co.; in that position he earned a reputation for energy and executive ability. He is a large stockholder in the company.

East Tennessee, Virginia & Georgia.—The board has chosen Messrs. George F. Baker, John T. Martin and George S. Scott, all of New York, directors to fill vacancies in the board.

Fitchburg.—Mr. Amos H. Brown has been appointed Depot Master in Boston and General Baggage Agent. Mr. Brown has been a conductor on the road for 20 years.

Mexican Central.—Mr. James Harrington has been appointed Superintendent of the Road Department in place of G. M. Thompson, who retires on account of ill health. Mr. Harrington was formerly Chief Engineer of the Tampico Line, but was recently appointed Assistant to the General Manager.

New England Road-Masters' Association.—At the annual meeting in Boston, last week, the following officers were chosen: President R. Hyland, Cheshire Railroad; Vice-President, A. C. Bean, Central Vermonit; Secretary, W. F. Ellis, Providence & Worcester; Treasurer. P. A. Eaton, Concord Railroad; Executive Committee, J. W. Shanks, New London Northern, J. R. Patch, Connecticut River, and J. S. Lane, New York, New Haven & Hartford.

New Hampshire Railroad Commission.—The Governor and Council of New Hampshire have appointed as Railroad Commissioners under the new law O. C. Moore, of Nashua, E. B. Sanborn, of Franklin, and E. J. Tenney, of Clare-

mont.

Mr. Tenney is a shoe manufacturer and was a Railroad
Commissioner under the old law; Mr. Sanborn is a lawyer
of high standing in the state, and Mr. Moore is editor of the
Nashua Daily Telegraph, and takes a prominent part in
state religious.

B

New York & Long Branch.—Mr. Albert Cha Red Bank, N. J., has been appointed Paymaster.

Northern Pacific.—At the annual meeting in New York, Sept. 20, the following directors were chosen: Frederick Billings, Woodstock, Vt.: Benjamin P. Cheney, J. L. Stackpole, Boston: Henry E. Johnston, Baltimore; J. C. Bullitt, Philadelphia: Asbbel H. Barney, August Belmont, John W. Ellis, Robert Harris, J. Pierpont Morgan, Thomas F. Oakes, Roswell P. Rolston, Henry Villard, New York. There is no change from last year.

no change from lass year.

Pennsylvania.—Mr. Michael Trump has been appointed Assistant Superintendent of the Pittsburgh division.

Mr. Samuel Rhea has been appointed Principal Assistant Engineer and assigned to duty in the office of the Third Vice-President.

Mr. A. P. Gest has been appointed Assistant Engineer of the Pittsburgh Division. Mr. John Brotherline has been appointed Assistant Engineer of the Monongahela Division.

Peoria, Decutur & Evansville.—Mr. George N. Wells as been appointed General Traveling Agent, with head-narters in Evansville, Indiana.

quarters in Evansville, Indiana.

Pittsburgh, Fort Wayne & Chicago Railway Mutual Benefit Association.—At the annual meeting in Erie, Pa., Sept. 18, officers were elected as follows: President, H. W. Wynkoop, Crestline, O.; First Vice-President, J. E. Welden, Chicago; Second Vice-President, O. E. Bradway, Fort Wayne; Third Vice-President, W. F. Roes, Allegheny; General Secretary, I. M. Layng, Crestline; Treasurer, J. J. Kirkland, Crestline; Executive Committee, J. K. McCracken, Fort Wayne; W. A. Strong, Alliance; I. Diefendorfer, Dunkirk, O.; James Rogers, New Brighton, Pa.; J. E. Goodyear, Worcester, O.; Auditing Committee, D. L. Zink, Crestline; Geo. H. McClane, Chicago, and J. N. Wertz, Crestline.

Pittsburgh Junction.—Mr. Thomas M. King has becomen President in place of E. K. Hyndman, resigned. I King is Superintendent of the Pittsburgh Division of Baltimore and Ohio road.

Port Royal & Augusta.—The jurisdiction of Messrs. J. N. Bass. Superintendent: Edward McIntyre, Treasurer: W. F. Shellman, Traffic Manager: and J. S. Davant, General Freight and Passenger Agent, is extended over the Augusta & Knoxville road, recently leased.

Richmond & Allegheny.—Mr. G. W. Agee having resigned, the office of Superintendent is abolished. Reports and communications heretofore sent to that office will hereafter be sont to Mr. Decatur Axtell, Receiver and Manager.

Road-Masters' Association of America.—At the convention in St. Paul, Minn., last week, the following officers were elected: President, I. Burnett, Chicago, Rock Island & Pacific, Joint, Ill; First Vice-President, John Brennan, Sc. Paul, Minneapolis & Maoitoba, Minneapolis; Second Vice-President, James Sloan, Chicago & Estern Illinois; Treasurer. Thomas Adamson, Onio & Mississippi; Secretary, C. R. Meeker, Chicago, Burlington & Quincy; Member Excentive Committee for three years, S. L. Sweeney, Wabash, St. Lanis & Pacific Railroad, Bement, Ill.

St. Louis, Keokuk & Northwestern, -Mr. M. B. Starring has been appointed General Baggage Agent, with office at Keokuk, Iowa.

South Pacific Coust,—Mr. George Revett is appointed General Superintendent in place of A. H. Fracker, resigned. Mr. Revett was formerly Privite Secretary to the President of the Chicago, Rock Island & Pacific Co. in Chi-

Staten Island Rapid Transit,—Mr. J. Frank Emmons as been chosen President in place of Adolph L. King,

Western & Atlantic.—Mr. C. E. Harman has been ap-pointed General Southern Agent. He has been connected ith the road for several years. Mr. Wm. H. Trezevant acceeds Mr. Harman as Southeastern Agent.

PERSONAL.

-Mr. G. W. Agee has resigned his position as superintendent of the Richmond & Allegheny road.

-Mr. Wm. B. Strong denies a report that he has resigned is position as President of the Atchison, Topeka & Sante e Railroad Co. He further says that he has no intention

—Mr. George H. Poor, Master Mechanic of the Portland & Ogdensburg Railroad, has resigned that office to accept the position of Mechanical Superintendent of the American Brake Co. in St. Louis.

—Mr. A. H. Fracker has resigned his position as General Superintendent of the South Pacific Coast road, to date from Oct. I. He has been on the road for several years and was previously Master of Transportation of the North Pennsylvania road.

-Wm. A. Norton, Professor of Civil Engineering in the Sheffield Scientific School of Yale College, a position which he had occupied for a great many years, died Sept. 1 aged 72. Professor Norton was a graduate of West Point and was eminent for his scientific acquirement and research, chiefly in the field of physics.

—Mr. Samuel Eben Barnay, for four years past an Assistant Engineer on the Northern Pacific road, has been selected as Acting Professor in the Sheffleld Scientific School of Yale College in place of the late Professor Norton. Mr. Barnay graduated from the college in 1879, and has been on the Northern Pacific road ever since.

—Mr. John D. McDonald, a railroad contractor, of Thorold, Ont., died at Ashburn, Ont., Sept. 20, after an illness of only two days. At the time of his death he was engaged on a contract on the Ontario & Quebec road, now approaching completion. Mr. McDonald had held contracts on many roads, and was well known both in Canada and the United States.

—Mr. E. K. Hyndman has resigned his position as President of the Pittsburgh Junction Railroad Co. He will restentirely for a time, in the hope of recovering his health, and will then devote his time to the development of some mineral lands which he owns in Tennessee. Mr. Hyndman was for a long time General Superintendent of the Pittsburgh & Connellsville road, and afterwards General Manager of the Pittsburgh & Western, resigning the later position a few months ago.

—Mr. E. B. Westfall having recently been promoted from the Superintendency of the Middle Division to that of the Eastern Division of the Philadelphia & Erie Division, Penn's sylvania Railroad, the employes of the Middle Division and the Renovo shops testified their friendship for him by presenting him with a horse and carriage and all the necessary outfit, and also a sleigh for winter use. The presentation was made at Mr. Westfall's residence and was acknowledged by him in appropriate terms. by him in appropriate terms.

TRAFFIC AND EARNINGS.

Coal.

Coal tonnages for the week ending Sept. 15 are reported

Coke, Penna		49,194	J.	12,232	24.9
Bituminous, Penna		61,514	D.	5,155	8.4
Semi-bituminous		111,903	I.	5,138	4.6
Anthracite	737.585	732,481	I.	5,104	0.7
as follows:	1883.	1892	Inc.	or Dec.	P.c.

An increased demand for anthractic coal is reported, with a firmer market resulting. The demand is chiefly for domestic consumption, as usual at this season.

Cumberland shipments continue very large, and this week are considerably in excess of the Clearfield tonnage.

The coal tonnage of the Pennsylvania Railroad for the week ending Sept. 15 was as follows:

	Coal. 1113,719 560,431	Coke. 49,287 12,139	Total. 163,006 72,570
Total		61,426	235,576

Texas & Pacific; Denver & Rio Grande; Atlantic & Pacific. The Vice-President of the Chicago, Burlington & Quincy

The Vice-President of the Unitage, road was also present.
It was stated that the object of the conference was the conclusion of an agreement for division of business and for maintaining rates. The proceedings are kept secret.
A committee of freight managers was appointed to prepare a plan for pooling and division of traffic.
On Sept. 25 the conference was still in session, but nothing had been done and no agreement reached.

Earnings for various periods are reported as follows: tionths ending Aug 31: 1882. Inc. or D-c. P. c.

Cin , Wash. & Bal. D. M & Ft. Dodge. Northern Cent Net earnings Pennsylvania Net earnings South Carolina	198,4:9 4,006,410 1,534,394 33,25×,913	\$1,073,015 223,868 3,498,215 1,358,921 31,471,178 11,869 879 726,607	I. D.	or D=c. \$105,067 25,430 308 195 175,473 1,787.739 284,108 67,557	9.8 11.3 8.3 12.9 5.7 2.4 9.3
Six months end					
Cleve. Col., Ciu. & Ind Net earnings N.Y. L. Erie & W. Net earnings	\$2,004,496 556,7 9 10,167,463 2,761,141	\$1,872.649 437,780 9,300.613 2,955,411	I. I. I. D.	\$131,847 118.959 866.850 194,370	7.0 27.2 9.3 6.5
Month of June: N.Y., L. Erie & W. Net earnings	615,722	1,756,694 685,862	I. D.	300,863 70,140	17.1 10.2
Month of July: Chi. & G Trunk Net earnings Det., G. Haven &	9,100	£30,850 3,226	I. I.	£14,314 5,874	46.3 182.1
Net earnings Grand Trunk Net earnings	21,326 6,202 286,310 84,028	21,071 6,182 275,244 77,029	I. I. I. I.	255 20 19,066 6,999	1.2 0.3 4.0 9.1
Month of Augu Buf., N. Y. & Phil. Net earnings Cin., Wash. & B. D. M. & Ft. Dodge New Or. & N. E		\$232,763 115,859 203,078 28,242	I. L. D. I.	\$32,237 29,141 21,078 8,553	13.8 25.1 10.4 30.0
New Or. & N. E. Northern Cent Net earnings Pennsylvania Net earnings South Carolina Vick., Shrev. & P.	280,211 4,775,380 2,142,624	825,970 331,646 4,671,179 2,032,862 79,822 6,698	D. D. I. I. I.	21,098 51,435 104,201 109,762 6,032 3,175	6.2 15.5 2.2 5.4 7.6 47:4
First week in S Ches. & Ohio Eliz., L., & B. S. Fla. Trans. & Pen	\$85,467 17,426 9,702	\$72,909 11,817 8,459	I. I. I.	\$12,558 5,609 1,243	17.2 47.5 14.6
Kan. City, Ft. 8. & Gulf Marq., H. & On Norfolk & West Peoria, Dec. & E. Wiscousin Cent	35,812 32,557 52,325 18,086	33,005 40,232 47,047 14,371	I. D. I. I.	2.807 7,675 5,278 3,715	8.5 19.1 11.2 25.8
Second week in	Sentember .				
Ches. & Ohio Eliz., L. & B. S. Chi. & G. Trunk Chi. & W. Mich Det., Lans. & N Flint. & Pere M Fia. Cent. & W Ind. Bloom. & W.	\$81,829 16,525 63,567 32,660 34,401 48,175 9,715 63,536	\$66,808 10,985 47,390 27,464 29,094 39,982 7,416 64,949	I. I. I. I. I. I.	\$15,021 5,540 16,177 5,196 5,307 8,193 2,299 1,413 14,726	22.4 50.4 34.3 18.9 18.3 20.5 31.1 2.2
St. P. Minn. & M.	167 700	7,164 180,700	I. D.	22,000	205.6 11.6
Tol. Cin. & St. L.	167,700 31,500	100,700			11.0
Wisconsin Cent.	27,355				
Third week in S Canadian Pacific Chi. & Alton Chi., Mil. & St. P Chi. & N. W	\$148,000 225,852 531,000 606,000	\$89,000 241,604 438,041 566,000	I. D. I. I.	\$59,000 15,752 92,959 40,000	66.3 6.5 21.2 7.1
& Omaha Denver & R. G Hannibal & St. J. Louis. & Nash Mil., L. Sh. & W. Mo. Pac. lines St. L. & San Fran	122,400 161,300 58,600 314,700 23,055 1,210,187 81,000	119,700 139,700 57,700 255,105 18,985 1,079,158 66,400	I. I. I. I. I.	2,700 21,600 900 59,505 4,070 131,029 14,600	2.3 15.5 1.6 23.3 21.4 12.1 21.9
Der at 1 years and	200,000	191,800	I.	1,400	0.7
It should be re earnings are ust			eekly	statemen	nts of

A Passenger War.

A Passenger War.

A contest involving a general cutting of rates from Chicago to Iudianapolis, Cincinnati and Louisville was begun last week. The immediate cause seems to have been the opening of the Louisville, New Albany & Chicago's new Air Line Division between Chicago and Indianapolis. The fight soon became very lively, and the rates were reduced to \$4.50 to Cincinnati and \$1 to Indianapolis. On Sept. 25 the Chicago & Eastern Illinois joined in the fight, and soon after carried it to extremes by announcing a rate of 5 cents to Indianapolis. This rate, however, was only given to passengers by the night train who take sleeping-car berths. The other roads have not met this extreme cut at latest dates.

Rates to Erie Local Points.

The following circular has been issued by the fast freight lines operating over the New York, Lake Erie & Western road: "To stations east of Susquehanna, on main line, the company will accept its proportion of full tariff New York rates, provided its proportion is not less than 15 cents per 100 pounds from Buffalo, Salamanca, Dunkirk, Suspension and International Bridges. When New York division of through rates allows us more than these figures the New York, Lake Erie & Western Railroad Co. must be given its full proportion. To Susquehanna and local stations on the main line west of Susquehanna this company-will accept as its proper proportion 35 percent, of the regular published tariff rates from Chicago to New York."

nati, or 46 hours and 50 minutes from Chicago. Northern and Western connections are requested to accord to the line prompt and full representation of both straight and round-trip tickets, and baggage checks:

Southern Railway & Steamship Association.

Southern Railway & Steamship Association.

The following circular from general Commissioner Virgil Powers is dated Atlanta, Ga., Sept. 21.

"By direction of the roads interested, the Green Line Car Mileage Department (which has been in charge of this office since April 1) will be discontinued on Oct. 1, 1883.

"The accounts for September will be made up by and settled through this office as early in October as possible. "All reports of and settlements for Car Mileage made on and after Oct. 1, 1883, should be done direct with the roads interested."

"All reports of and settlements for Car Mileage made on and after Oct. 1, 1883, should be done direct with the roads interested."

Increase of Saw Mills Dependent on Railroads.

The Nor hwestern Lumberman of Sept. 22 says: "It has not been until late years that inland, or railroad mills, have cut much of a figure in the lumber business. Such mills a few years ago were mostly portable, small affairs, the proprietors of which thought they were doing well if they urned out 25,000 feet of lumber daily. All the large mills were located on the shore of the lakes, along the Mississippi and other rivers, or at the mouth of the logging streams, as a matter of necrosity. Inland mills, like N.C. Foster's at Fairchild, Wis, the Beaver Lake Lumber Company's, the Barronett Lumber Company's, the She I Lake Lumber Company's, the American Lumber Company's, in the upper pennosula of Michigan, or the West Michigan Lumber Company's, at Woodville, Mich., that turn cut from 12,000.000 to 40,000,000 feet annually, were unknown except located where supplies could be obtained by rafts or drives. But now the inland mills play a prominent part in lumber production. Last season the cut on the 'Lumber Line,' the Wisconsin Central, leaving out Stevens Point, where logs are obtained by river, the Grand Rapids & Indiana, and the Flint & Pere Marquette railroads, was 750,000,000 feet, and if to this amount the product of the other railroad mills were added, it would swell the figures largely. The majority of these mills are fully as prosperous, if not more so, than are the ones at the great manufacturing centres. The proprietors of several of the largest ones own logging railways, and consequently their logs are laid down in their yards when needed. There is no detention from droughts, floods or deep snows. Moreover, they select such timber as they require, and thus avoid such wholesale slaughter as is practiced on the streams. They never have to depend on an overcrowded or sluggish cargo market, neither are they discommoded by a scarcity of c

OLD AND NEW ROADS.

Atchison, Topeka & Santa Fe.—On this company's Kansas City & Emporia Branch the grading is now nearly completed from Emporia, Kan., on the main line, eastward to Ottawa on its Southern Kansas line, a distance of 53 miles. Track has been laid from Emporia east to Mosho Rapids, 11 miles. This branch, in connection with the Southern Kansas line, will give the company an additional line from Emporia to Kansas City, some 15 miles shorter than the present main line.

Atlantic & Danville.—Tracklaying was recently begun on this road and the rails are now laid from Claremont Wharf on the James River in Surry County, Va., westward 5 miles. In this distance the road rises rapidly from the river, and there is a heavy grade with numerous curves until the upland level is reached.

Atlantic & Pacific.—A meeting was to be held in San Francisco this week to make final arrangements for the opening of this road as a through line between San Francisco and St. Louis, in connection with the Central Pacific, the Atchison, Topeka & Santa Fe and the St. Louis & San Francisco roads.

Augusta & Knoxville.—This road was turned over to the Port Royal & Augusta Co. on Sept. 15, under the lease recently concluded, and will hereafter be operated as a division of the Port Royal road.

Aurora & Rochester.—It is proposed to build a rail-road from Aurora in Erie County, N. Y., southeast through Java and Pike to a point on the Genesee Valley road near Portage. The distance is about 30 miles, and the object of the road is not very clear.

the road is not very clear.

Baltimore & Ohio.—Sealed proposals will be received at the office of P. H. Irvin, Chief Engineer of this company's Ohio & Baltimore Short Line in Washington, Pa., until noon of Oct. 15, for the grading, masonry and tunneling of sections 3, 4, 22, 31, 40, 41, 43, 43 and 44 of that line. Plans and specifications may be seen and information obtained at the office as above.

Proposals will be received at the office of H. T. Douglas, Chief Engineer, at the company's offices in Baltimore until Oct. 15 next, for the foundation and masonry of the bridge over the Susquehanna River on the new branch to Philadelphia. The proposals must include materials in caissons and coffer dams and the cost of sinking the same to bed rock; also the cost of keeping caissons and coffer dams free from water during the time the concrete and masonry are being laid. Plans and specifications can be seen after Oct. 1 at the Chief Engineer's office in Baltimore.

the Eastern and the Maine Central are largely identical, and the present executive management of the two roads is the same and is deservedly popular. Hence there is a feeling, it is said, that a change in the management would be detrimental to Maine Central interests, and that its stockbolders could not expect from the Boston & Maine such advantages as they now possess. What may be the outcome of the pending negotiations between the directors of the Maine Central and those of the Boston & Maine there is no opportunity of judging, but it seems likely that some concessions will be made to the former road."

Buffalo, New York & Philadelphia.—This company makes the following statement for the month of August; 1883. 1882, Increase. P. C. Earnings... \$205,000 \$232,763 \$32,237 13.8 Expenses... 120,000 116,904 3,096 2.6

Net earnings ...\$145.000 \$115.859 \$20,141 25.1 The earnings and expenses for the month this year are partly estimated. The proportion of expenses to earnings is unusually small.

Canadian Pacific.—Track on the main line of this road is now laid for 35 miles westward from the late terminus at Calgarry, and within 25 miles of Padmour, which is at the entrance of the pass through which the road will cross the Rocky Mountains. The grading is completed for 55 miles beyond Padmour, leaving only 6 miles to reach the summit of the pass.

Cannelton.—This company has been organized to build a railroad from Cannelton in Kanawha County, W. Va., to a point on the lands of the Cannelton Coal Co., near Bell Creek. It will be a short coal road.

Carolina, Cumberland Gap & Chicago.— for this road is now in progress, and the engineers at Aiken, S. C., have reached Eastatoe Gap.

Central Iowa.—A large transfer steamer has been put in use on the ferry across the Mississippi River between Keithsburg, Ill., and West Keithsbury, Ia. The steamer will be used to transfer cars across the river, completing the connection between the Illinois and Iowa divisions of the road.

Central, of New Jersey.—The Dinsmore suit to set aside the lease of this road to the Philadelphia & Reading Co. came up before the United States Circuit Court at Trenton, N. J., Sept. 25. A motion for the appointment of an examiner to take testimony in relation to charges of bad faith on the part of the plaintiff was denied, and the case was set over to Oct. 26, to give time for filing answers to the complaint.

chicago, Milwaukee & St. Paul.—This company's James River Branch is now opened for traffic to Wolsey, Dak., 41 miles southward from the late terminus at Ashton, 78 miles from the junction with the Hastings & Dakota Division at Aberdeen, and 111 miles from the northern end of the branch at Ellendale. About 34 miles of track, from Wolsey to Letcher, remains to be laid to complete this branch southward to the Iowa & Dakota Division at Mitchell, 160 miles from Ellendale.

The Okoboji Branch has been extended from its late terminus at Lake Okoboji, Ia., northward to Spirit Lake, 7 miles beyond Okoboji, and 24 miles from the junction with the Iowa & Dakota Division at Spencer. Regular trains will run to Spirit Lake in a few days.

Work has been begun on the extension of the Chippewa Valley Division from Eau Claire, Wis., northwest to Chippewa Falls, about 11 miles. The object of this extension is to secure a share of the traffic of the large lumber mills at Chippewa Falls.

Cleveland, Columbus, Cincinnati & Indianapolis.

The following statement for the half year ending June 30

is published in Lond Earnings Expenses	1883. 2,004,496	1882. \$1,872,649 1,436,269	Increase, \$131,847 11,488	P.c. 7.0 0.8
Net earnings Fixed charges	\$556,739 323,796	\$436.380 320,905	\$120,359 2,891	27.6 9.9
Surplus The expenses were	\$232,943	\$115,475 cent of gro		101.8

The expenses were 78.22 per cent. of gross earnings this year, against 76.64 per cent. last year.

Expenditures for additions to property in the half-year of 1888 were \$191,412, leaving a balance of \$41,532 to credit

Columbus, Hope & Greensburg.—The track on this road is now laid from the junction with the Cincinnati, Indianapolis, St. Louis & Chicago road at Greensburg, Ind., westward to Hope, 17 miles, and the first train was to run to Hope on Sept. 27. From Hope southwest to Columbus, 11 miles, the grading is well advanced, and work is being pushed as fast as possible.

pushed as fast as possible.

Concord.—The Boston Advertiser of Sept. 22 says: "Regarding the prospects for the consolidation of the several railroads wholly or in part located in New Hampshire, to facilitate which the recent passage of the Colby general railroad bill was secured, there seems to be some divergence of opinion. It has been asserted by the friends of the bill that the several interests involved were substantially unanimous in favor of consolidation, and so soon as legislative sanction should be secured they would speedily perfect the union of the lines. But recent advices from persons well informed as to railway affairs in New Hampshire are to the effect that the Concord, the Northern, and the Boston, Concord & Montreal are far from harmonious, and that there is likely to be a long period of negotiation before they will arrive at a satisfactory basis of amalgamation. The fact is said by these gentlemen to be that the larger surplus of the Concord Railroad and its immense earnings are the 'melon' which the managers of the other two roads are desirous of having cut, and that the question of the division of the aforesaid melon and the distribution of the slices is likely to cause considerable pulling and hauling. There is talk of an appeal to the Supreme Court to prevent any such distribution of the Concord's wealth as is said to be contemplated."

plated."

Denver & New Orleans.—A public auction sale of securities of the Denver & New Orleans Railroad Co., occurred at the office of the Mercantile Trust Co., in New York, Sept. 19. The Trust Co. beld as collaterals for money loaned 2,286 of the first mortgage bonds, and 25,400 shares of the stock of the railroad company. The par value of the bonds was \$1,000. The sale was made in consequence of a default of payment of certain promissory notes which had been given to the Mercantile Trust Co., by the Denver & New Orleans Railroad Co. The amount of the Trust Company's claim was something over \$1,500,000, and the securities which were offered were bid in by Mr. J. S. Brown of Denver, for \$1,592,000. The sale was attended by a large number of gentlemen interested in the Denver & New Orleans, including President Evans. The purchase by Mr. Brown is supposed to be in the interest of the company.

It it reported that this road has been sold to Eastern parties, who will extend it from Pueblo, Col., to the coal dis-

tricts about Cañon City and also to the coal mines at Trin-

Denver, Utah & Pacific.—A dispatch from Denver, ol., says that this road has been sold, but no particulars of sale have been made public.

Detroit, Bay City & Alpena.—Surveys are being made for this road from East Tawas, Mich., to An Sable, about 14 miles. Work on the grading bas been begun at East Tawas, with the expectation of finishing this section of the road this year.

Florida Ship Canal.—At a recent meeting the directors were authorized to make a contract for the construction of the proposed canal, and to begin work as soon as possible. The canal will start near the mouth of the St. Johns River, and its length, according to the survey, will be 136 miles. It is proposed to make the canal 30 ft. deep and 230 ft.

Florida Southern.—On the extension of the main line of this read track is now laid to Hague, Fla., 11 miles northwest from the late terminus at Gainesville and 60 miles from the St. Johns River at Palatka. Work is progressing on the line from Hague to Newnansville, 5 miles.

on the line from Hague to Newnansville, 5 miles.

Georgetown & Lanes.—This road, which is to extend from Georgetown, S. C., westward to Lanes, a station on the Northeastern road and the eastern terminus of the South Carolina Central, is now completed for 20 miles from Georgetown, and trairs are running on the completed section. The remaining 17 miles are all graded and the crossties laid ready for the rails, which are being furnished by the Bethlehem Iron Co. The work on this road was begun in December last, when the entire contract to build and equip the road was let to Mr. A. J. Twiggs, of Augusta, Ga. There are now 50 freight cars on the road, which were built in Georgetown; they are all standard cars of 20 tons chacity. It is expected that the rest of the track will be laid and the road turned over to the company by Nov. 1 next.

Grand Trunk.—An agreement has been concluded

Grand Trunk.—An agreement has been concluded between this company and the city of Montreal, under which the city is to surrender its claim for the repayment of the loan of \$600,000 made to the company 30 years ago, at the time the road was first built. The company, on its part, agrees to build a passenger station in the city to cost \$500,000. As security for the performance of the agreement, the company is to deposit \$100,000 with the Bank of Montreal as security, to be forfeited if the station is not completed within two years.

Hannibal & St. Joseph.—A fire broke out in the repair shops of this road at Hannibal, Mo., on the morning of Sept. 22, and the machine and blacksmith shops were entirely destroyed. The loss is estimated at \$50,000, and is partially covered by insurance.

Hartford & Harlem.—A new survey through the city of New Haven, Conn., and from New Haven westward has been begun, in consequence of the objections of the Connecti-cut Railroad Commission to the former location of the road.

International Bridge.—The Buffalo Express of Sept. 20 says; "On Tuesday morning a new step was taken in the long-pendng International Bridge litigation. The Canada Southern has obtained from the United States Supreme Court in Washington a writ of alternative mandamus to compel the United States District Court for the Northern District of New York, to reopen the case relating to the terms upon which the railroad shall use the bridge. Mr. Daniel H. McMillan, attorney for the Canada Southern, yesterday served the writ from the Supreme Court upon Judge Coxe, presiding at the United States District Court. A rehearing of the case is therefore to be had."

Kanawha & Coal River.—This company's road is now

Kanawha & Coal River.—This company's road is now completed from the Chesapeake & Ohio road at a point 5 miles west of Charleston, W. Va., southward 15 miles up Davis Creek to the lands of the Black Band Iron & Coal Co. The road is intended to carry coal and iron ore to the Chesapeake & Ohio road, and also to a new blast furnace at the junction. The company intends to build an extension from the present terminus southward to Coal River.

Kansas City, Fort Scott & Gulf.—In order to provide the additional equipment required on the completion of its line to Memphis. an issue will be made of \$525,000 bonds of the Fort Scott Equipment Co., guaranteed by the Kansas City, Fort Scott & Gulf Railroad Co. These bonds will bear 6 per cent. interest, will have 10 years to run, and one-tenth of them will be payable each year at 105, either by purchase by the trustees, or by drawing by lot. The bonds are secured by mortgage on the equipment and by the agreement of this company to pay each year a rental equal to the interest and one-tenth of the principal. These bonds are now offered to stockholders of the Kansas City, Fort Scott & Gulf Co., each holder of record Sept. 20 to have the right until Oct. 8 to take them at 95, in the proportion of one \$1,000 bond for each 140 shares of common or preferred stock owned. Payment is to be made in installments as called for, no installment to exceed 25 per cent. of the principal.

installment to exceed 25 per cent. of the principal.

Louisville, New Orleans & Texas.—A dispatch from Vicksburg. Miss., Sept. 18, says: "An injunction was served on Maj. J. M. Edwards to day as Vice-President and General Manager of the Vicksburg & Memphis, Mississippi Valley & Ship Island, Tennessee Southern and Grand Gulf & Port Gibson railroads, enjoining them from consolidation under the name of the Louisville, New Orleans & Texas Railroad. It is claimed in the bill of injunction filed in the Chancery Court of this county, that a contract was made in February. 1881, between R. T. Wilson of New York, E. Martin, George M. Klein, N. A. Harris, and Mrs. L. A. Campbell of this city and Mrs. Margaret Hunt of Boston that for and in consideration of certain property franchises, etc., the said R. T. Wilson was to issue stock and bonds to the plantiffs to the amount of \$2,000,000, which the plantiffs in the suit claim has not been done, hence the injunction. The injunction forbids the delivery of said bonds, franchises etc., to any other parties except those named in the petition. The case will be heard is chancery at the November term."

Marietta & North Georgia.—The Georgia Legislature has approved the report of the investigating committee, and has passed the resolution giving this company the free use of 250 convicts until it is completed to the North Carolina line.

250 convicts until it is completed to the North Carolina line.

Mexican Railroad Notes.—The following notes are from the Mexican Financier of Sept. 1:

The Federal District Railway Co. is connecting the stations on its San Angel line by telephone.

There have arrived at Monterey 950 tons of rails for the Matamoros & Monterey line of the Mexican National. The government inspector reported on Aug. 28 that 23 kilometers of track had been accepted, and 24 more had been finished, making 47 in service. Of grading, 90 kilometers had been finished, The present average of workmen employed was 380.

The northern line of the Mexican Central has reached Villa Lerdo. The southern end has crossed the Encarnacion bridge and track-laying is now progressing rapidly towards

Aguascalientes. The road is now in operation between Lagos and Emcarnacion, a mixed train leaving Lagos at 7 in the morning and reaching Encarnacion at 10:40, leaving Encarnacion at 2:40 in the afternoon on the return, and reaching Lagos at 6:80. Aguascalientes is preparing to celebrate the arrival of the road at that point, and the state government has invited the other states of the republic to participate in the festivities.

The reports that work has been suspended in pushing the construction of the Mexican National prove to be incorrect. The work of construction is going on at both ends of the main line between here and the States. There has been some delay in reaching Faltillo in consequence of bridge-building, but the capital of Coabuila will be able to bold its railway jubilee on the national independence day, Sept. 16. It is not likely that work southward will be suspended at that point in order to concentrate all forces on the completion of the Matamor's line, as has been reported from Laredo. The next important point to be reached on the line from this end, beyond Celaya, will be San Miguel de Allende, in the state of Guanajuato. S. Miguel is an important manufacturing city, with a population of something like 40,000.

Arrangements are now pending with the General Difference meanscenent for the astabilishment of a stace line state.

portant manufacturing city, with a population of something like 40,000.

Arrangements are now pending with the General Diligence management for the establishment of a stage-line between the two ends of the track of the Mexican Central. The Diligence management looks favorably upon the idea, and the line will probably be established as soon as the trains begin running to Aguascalientes, the stages running between that point and Villa Lerdo daily. There is at present a diligence line through Zacatecas to Burango by way of Sombrerete. Perhaps the line for Lerdo may branch off from this route at Sombrerete, or it may be found practicable to take a much shorter route to the eastward from Zacatecas, leaving out Sombrerete. The time from Aguascalientes to Lerdo will probably be 5 days, but the trains will be running from bere to Zacatecas before the end of the year, and as the northern end will be pushed southward well into Zacatecas by that time—reaching, in all probability, the town of San Juan de Guadalupe—the diligence journey will be shortened to two or three days, making the overland route by far the quickest way to the United States.

Minneapolis & St. Croix.—This company has filed articles of incorporation to build a railroad from Minneapolis, Minn., to the St. Croix River near Stillwater. It is to be the Minnesota section of the projected Minneapolis, Sault Ste. Maine & Atlantic road.

Mobile & Ohio.—This company announces that on Oct.

1 the local passenger fares over its lines will be reduced to 3
cents per mile. The rate heretofore has been 4 cents per

New Brunswick.—This company is building repair shops at McAdam Junction, N. B., the crossing of its leased New Brunswick & Canada and St. John & Maine lines. The buildings in progress include a car shop, blacksmith shop, machine shop, boiler and engine bouse, storehouse and a number of dwellings for the men employed.

New Castle & Northern.—It is said that an agreement has been concluded under which this road will be completed as soon as possible and will be operated by the New York, Lake Erie & Western Co. when completed. The road will be 16 miles long, from Middlesex, Pa., on the Erie's leased New York, Pennsylvania & Ohio road, southward to New Castle, where connection will be made with the Pittsburgh & Western road to Pittsburgh. This would give the Erie a connection to Pittsburgh. The road is now under contract.

New Orleans & Northeastern.—The New Orleans Times-Democrat of Sept. 20 says: "Mr. George B. Nicholson, Engineer in charge of the construction of the Southern Division of the New Orleans & Northeastern road, arrived in the city yesterday from an inspection of the work on the lower end of the line. He informed the reporter that the south draw of the lake bridge will be swung lato place within the next two weeks, and when this is done the track will be further advanced on the trestle. The first pier of the West Pearl River bridge is finished, and is ready for the erection of the draw span, which will be put in place in a few days. While the erection of the draw is in progress work on the remaining piers will be finished, which will then permit the building of the fixed spans. Over the East Pearl River a temporary trestle-work has been built, on which the track will be laid in order to avoid the delay of waiting until their on spans are cretced, the piers for which are very nearly completed. On Honey Island there are several small wooden trestles which are not yet completed, but which will be ready for the track by the time it reaches that locality. Mr. Nicholson states that every contractor who is slow or backward with his work is being pushed vigorously. He thinks that the track will reach the West Pearl River by Oct. 1. and that there is every reason to believe that the road will be completed to this city by Nov. 1."

New York & Boston Inland.—It is reported that this company has concluded a contract with Linn & McCarthy, of New York, for the construction of the road. The contractors, who are said to have held extensive contracts in Russia, are now inspecting the line of the road. It is said from Boston that the contracting firm is not known there, and that its members are not generally supposed to have much financial strength. The firm is not known in New York.

New York, Lake Eric & Western.—This company makes the following statement for June and the nine months of its fiscal year from Oct. I to June 30, the figures includ-ing the earnings and expenses of leased lines:

-June. 1883 1882 83 1861-82 82.057,547 \$1,756,684 \$15,496,701 \$14.402,156 1,441,825 1,070,822 10,893.287 9,801,103 Expenses....

Net earn. ... \$615.722 \$685.562 \$4,603.415 \$4,601.053

For the nine months there was an increase of \$1,094,545 or '7.6 per cept., in gross earnings, with an increase of \$1,092,184, or 11.1 per cent., in expenses, the result being an increase of \$2,361, or 0.05 per cent. in net earnings.

New York & Long Branch.—The suit to enjoin this campany from canceling the contact under which its road is operated jointly by the New Jersey Central and the Peunsylvanta Railread companies come up in the United States Circuit Court in Trenton, N. J., Sept. 25. By agreement the case was put over in order to give time for the taking of testimony, the answers Laving-all been filed and the case brought to an issue. It is probable that the hearing will not be had until the March term.

New York, West Shore & Buffalo.—Work is being pushed on the second track between Coeymans Junction and Syracuse, and it will be completed by Oct. 1, when trains begin to run to Syracuse, with the exception of one or two short gaps.

On the Buffalo and of the line track has been laid from

Akron, N. Y., eastward 20 miles, to a point a little over 40 miles from Buffalo. From Syracuse westward the track is laid for about 40 miles. Tracklaying is also in progress at several other points, and, if the present rate of progress can be kept up, it is thought that one track at least can be completed through to Buffalo by the end of the year.

It is said that arrangements have been made to place the \$12,000,000 first-mortgage bonds of the West Shore & Ontario Terminal Co., and that work will be pushed rapidly on the improvements of the terminal property at Weehawken.

Norfolk & Western.—A dispatch from Norfolk, Va., says that this company has filed for record in that city an agreement for the purchase of equipment to the amount of \$600,000 under a car-trust arrangement. The new equipment will include locomotives, passenger cars, box and coal

scool under a car-trust arrangement. The new equipment will include locomotives, passenger cars, box and coal cars.

Northern Central.—The Philadelphia Ledger of Sept. 24 says: "Among the improvements projected and that are being made at the present time, under the direction of Mr. George C. Wilkins, General Agent, the following may be noted: At Baltimore the bridges of the Union Railroad over Broadway, Gay street and the Philadelphia turnpike are to be replaced with other structures. These bridges will be hands me, beavy, single span trusses, of the pattern used in the Pennsylvania system, in accordance with the policy to have the different lines equipped after the uniform manner which the Pennsylvania Railroad has found to be the most efficient. The Northern Central Railway is constructing a 200 ft. span iron truss bridge at Belvidere avenue, between Melvale and Mount Washington, Baltimore County, The Northern Central and Baltimore County jointly meet the cost of the bridge, which will be about \$22,000, but the company does the work. At Canton, in Baltimore, where the extensive shipping facilities of the road are located, several permanent improvements, which will cost over \$100,000, have just been put under contract. There the company has now two grain elevators, with a combined capacity for storage of 1,350,000 bushels and every modern convenience for handling grain and accommodations for the loading of vessels; a third elevator, which was recently destroyed by fire, will be rebuilt, and with enlarged capacity. The freight depot at Canton is 500 ft. in length by 70 ft., with storage facilities and transfer direct to vessels; and there are also bonded tobacco and coffee warehouses and coal wharves and accommodations for handling live stock for shipment, besides the numerous sidings in the freight yards. The most prominent of the projected improvements are the two new freight piers to be constructed: the first, which will be known as No. 4, is to be 500 ft. by 100 ft., with two tracks down the centre, and the

and the eight months end	ling Aug. 3	1:		
	August		months	
1883. Earnings \$587.272 Working exp'ns. 288,121	1882. \$625,970 274,356	1883. \$4,006,410 2,215,398	1882. \$3,698,215 2,141,476	
Extraordinary expenses 18,940	19,968	256,618	197,818	
Total\$307,061	\$294,324	\$2,472,016	\$2,339,294	
Net earnings,\$180,211	9331.646	\$1,534,394	\$1,358,921	

For the eight months there was an increase of \$308,195, or 8.3 per cent., in gross earnings. There was also an increase of \$73,922, or 8.4 per cent., in working expenses, and of \$58,809, or 60.1 per cent., in extraordinary expenses, making an increase of \$132,722, or 5.7 per cent., in total expenses; the result being an increase of \$175,473, or 12.9 per cent, in net earnings.

expenses; the result being an increase of \$175,473, or 12.9 per cent, in net earnings.

Northern Pacific.—The extension of the Pacific Division from Kalama, Wash., to Portland, Or., was completed last week, and regular trains will begin to run in a few days through from Portland to Tacoma on Puget Sound. This extension starts from Portland and runs northward up the west bank of the Willamette to its mouth, and thence up the west bank to the Columbia (which runs nearly due north for some 50 miles beyond the mouth of the Willamette) to Lenore, opposite Kalama. The length of the new line is 41 miles. Between Lenore and Kalama, across the Columbia River, the connection is made by a steam ferry, the transfer boats being of sufficient size to carry a train of cars across the river. The distances by this line from Portland to the Puget Sound terminus at New Tacoma, allowing two miles for the river transfer, is 148 miles.

In answer to a question as to whether the company would build the branch to Astoria, Oregon, provided contractors could be found to do the work for \$30,000 per mile, President Villard has replied that the Company will build the line if contractors will receive in payment for their work \$20,000 per mile in first-mortgage bonds and \$10,000 in second-mortgage bonds, as the Company has no other available means at present.

The Fargo & Southwestern Branch is now completed to Lamoure, Dak., 30 miles west by south from the late terminus at Lisbon, and 86 miles from the main line at Fargo.

It is reported that an issue of debenture bonds or second-mortgage bonds to the amount of \$15,000,000 will be made for the purpose of funding the floating debt. No action has yet been taken by the board, however, although it is said that something will be done at its next meeting.

Ohlo River.—Tracklaying on this road was begun at Parkersburg, W. Va., Sept. 12. There are 90 miles of track

Ohio River.—Tracklaying on this road was begun at Parkersburg, W. Va., Sept. 12. There are 90 miles of track to lay from Parkersburg to Benwood, four miles below Wheeling. The Ohio Valley Construction Co. is building the road, and the work is in charge of Mr. Wallace McGrath as Chief Engineer.

Ohio & Mississippi.—The London Committee of Stock-holders has issued a notice requesting stockholders in the United States to noite with them at the coming annual meeting in electing three directors who will represent their interests, in order that the board may not be wholly controlled by the Baltimore & Ohio interest.

for the month of August: \$19,120 Cash on hand, Aug. 1. \$19,120 Receipte from all sources. 546,826	
Total	-

Pennsylvania.—A suit has been begun to eujoin this company from building the bridge over Toms River on its new branch to Island Heights, N. J. The plaintiffs do not object to the building of a bridge, but claim that the draw has only 37 ft. clear opening, according to the company's plans, and that it will obstruct the navigation of the river, nuless a larger opening is provided.

This company makes the following statement for August, in which month, as compared with August, 1882, all its lines are of Pittsburgh and Erie show:

An increase in gross earnings of \$104,201 A decrease in expenses of 5,561 An increase in gross earnings of \$1,787,734
An increase in expenses of 1,503,626

With the earnings fully stated, the comparison is as for

lows:					
August: Earnings Expenses	1883. \$4,775,380 2,632,756	1882. \$4,671,179 2,638.317	I. D.	\$104,201 5,561	2.2
Net earnings Eight months:	\$2,142,624	\$2,032,862	I.	\$109,762	5.4
Expenses	33,258,912 21,104,925	31,471,178 19,601,299		1,787,734 1,503,626	5.7 7.9
Not comin-	A10 170 00F	011 000 000	T	2004 109	0.4

Net earnings..... \$12,153,987 \$11,869,879 I. \$284,108 2. All lines west of Pittsburgh and Erie for the eight month of 1888 show a surplus over all liabilities of \$557,180, being a decrease of \$64,722 as compared with the corresponding period last year.

a decrease of \$64,722 as compared with the corresponding period last year.

Philadelphia & Reading.—It is stated that this company will give its new consolidated mortgage bonds in exchange for the \$2,500,000 income bonds now outstanding. The object of this exchange, it is said, is that the company desires to make a scrip dividend in January, and that, under the terms of the income bonds, interest will have to be paid on those bonds before any dividend can be paid on the stock. This statement is, of course, a rumor only.

The full report of earnings for August bas not yet reached us, but a dispatch from Philadelphia, Aug. 27, says: "The gross receipts of the Philadelphia, Aug. 27, says: "The gross receipts of the Philadelphia & Reading Railroad Co. for August are officially reported as \$3,538,032, and of the Coal & Iron Co. as \$1,866,104. The expenses of both companies are given as \$3,535,559, and the net earnings \$2,052,578, being an increase as compared with the corresponding mouth last year of \$881,279. The net earnings for the eight months of thelyear, as compared with the corresponding period last year, show a gain of \$1,817,929. This statement includes the following business of the Central Railroad, of New Jersey: Gross receipts, \$1,256,335; working expenses, \$565,311; net earnings, \$691,124; rental for August, \$452,043; profit for month, \$239,081. These earnings are included in the general statement above."

Portland & Ogdensburg.—A dispatch from Portland, Me Neyel 21 sever.

earnings are included in the general statement above."

Portland & Ogdensburg.—A dispatch from Portland, Me., Sept. 21, says: "At an informal meeting of citizens to-night the Hon. W. L. Putnam appeared to suggest for the consideration of the city government the subject of the disposal, by sale or lease, of the city interest in the Portland & Ogdensburg Railroad. Mr. Putnam said he was not prepared to make any proposition, but indicated that if the city were disposed to consider favorably a proposal to buy or lease, it was probable that the Canadian Pacific Railroad would be prepared to make some propositions. He suggested in outline the points which, in his judgment, the city ought to insist upon as security of its present and future interests, so far as affected by the future of this property, and intimated that conditions guaranteeing these would not be objected to. The purpose of the meeting was merely to make suggestions, and ito action was taken, and a meeting will be held when members of the City Council have had opportunity to talk over these suggestions with citizens."

Port Royal & Augusta.—A circular from President

Port Royal & Augusta.—A circular from President W. G. Raoul announces that from Sept. 15 this company operates the Knoxville & Augusta road, recently leased, as a division of its line. All debit and credit balances accruing with other roads after Oct. 1 will be settled by the Treasurer of this company.

Securities on the New York Stock Exchange the following securities have been placed on the lists at The following securities have been placed on the lists at the New York Stock Exchange: Canada Southern, \$6,000,000 second mortgage 5 per cent.

bonds. Standard Valley, \$2,270,000 first-mortgage 7 per cent. Shoulds: \$6,212,000 second-mortgage 6 per cent. bonds (\$2,-270,000 of which are reserved to retire the first-mortgage bonds), and \$2,500,000 income 6 per cent. bonds. The Governing Committee also recognize the change of the name of the Elizabeth City & Norfolk to the Norfolk Southern Railroad Co., and directed the necessary changes in the lists to be made.

Sloux City, Kearney & Denver.—This company has filed articles of incorporation to build a railroad from Nor-folk, Neb., southwest to the state line in Red Willow County, and thence through Kansas and Colorado to Den-

Telegraph Consolidation.—The New York Times of Sept. 25 says: "A general consolidation of the offices of the Bankers' & Merchants', the Southern and American Rapid Telegraph companies will go into effect Oct. I. The men who own the first named company will control absolutely the lines of the two other companies, and its principal officers will assume charge of all the business hitherto attended to by three sets of officers. The Bankers' & Merchants' people have leased the entire building No. 187 Broadway, now occupied by the Rapid Co. It is proposed under the new arrangement, to discontinue the use of the automatic rapid system, and also to stop issuing telegraph stamps. The working force of the Rapid Co. is being reduced, about 140 men having already been dropped. A traffic arrangement has been made between the new combination and the Baltimore & Ohio Telegraph Co.; somewhat similar to that which existed between the Baltimore & Ohio and the Rapid companies. Mr. J. G. Case, Treasurer of the new combination, states that contracts have been made for the construction of about 3,000 miles of new wire. There is some prospects that a union of a mutually satisfactory character will soon be made between the farmed of Pitteville.

the National Telegraph Co., which controls the lines erected along the Nickel Plate and West Shore Railroads, and the Bankers' & Merchants' combination."

Texas & St. Louis—The Magnolia Branch has been completed and opened for traffic from McNeil, Ark., on the main line 50 miles east of Texarkana, southward to Magnolia in Columbia County, a distance of 7 miles. Magnolia is a flourishing town, being the centre and shipping point of a rich cotton country. This branch is to be extended hereafter to Shreveport, La., some 60 miles south by west from Magnolia.

Magnolia.

Toledo, Cincinnati & St. Louis.—A dispatch from Boston, Sept. 25, says: "Judge Baxter, of the United States Court, Ohio District, has informed Judge Drummond of the Indiana and Illinois District that on Saturday next he will remove Mr. Dwight, now Receiver of the Toledo, Cincinnati & St. Louis Railroad, from the receivership of the road in Obio. He has asked Judge Drummond to meet him in Toledo next Saturday to confer upon the question of appointing a new Receiver for the entire system.

"A meeting of about 30 stockholders in this system was held to-day, John F. Osgood presiding. It was voted that a mass meeting of the bondholders be held in Boston on Thursday next to take action looking to the protection of their interests. Henry D. Hyde advocated several plans for a reorganization, but Mr. Osgood expressed the sentiment of the meeting when he declared that he should oppose any reorganization at present, preferring to trust his interests with the Receiver. He had written to Mr. Dwight to have him bring suit against delinquent subscribers to the debenture bonds, who now owed the company \$840,000, and Mr. Dwight had replied that he would bring an action to collect this money were the matter of the receivership settled. It is probable that Thursday's meeting will result in the employment of counsel to represent the bondholders' interests before the courts."

before the courts."

Union Pacific.—This company has lately completed a spur track from the transfer station near Council Bluffs, Ia., eastward into that city. This track is 1½ miles long, and a station is to be erected at its terminus to accommodate the local freight and passenger business.

Track on the Oregon Short Line is now laid to Caldwell, Idaho, 15 miles northwest from the late terminus at Kuna, and 463 miles from the main line at Granger. Caldwell is at the crossing of the Boise River, and is the station for Boise City, the capital of the territory, which is about 30 miles eastward up the river.

Vermont & Canada.—A circular has been addressed to

at the crossing of the Boise River, and is the station for Boise City, the capital of the territory, which is about 30 miles eastward up the river.

Vermont & Canada.—A circular has been addressed to stockholders by a committee of the board, asking them to attend the annual meeting, Oct. 18, in person, or to send their proxies to the committee. After recounting the circumstances under which the compromise agreement with the Consolidated Railroad Co., of Vermont, was approved, and saying that it was accepted by the Vermont and Canada Co. in good faith, the circular says:

"The agreement to exchange our stock for bonds, and to mortgage our road to secure the bonds, was based upon the consideration not merely that we were to receive \$1,000,000 in bonds, but also that the trust-debt claims, for the enforcement of which the Langdon suit was brought, were to be released. That suit is still pending, for some reason that governs the parties with whom we are dealing; and, so long as it is, those claims cannot be considered as released. We are not informed what the Central Vermont Railroad Co. intends to do with that suit; but Mr. Langdon himself, a large stockholder and director in said company, as well as in the new Consolidated Railroad Co., of Vermont, is credibly reported as asserting his determinination to avail of the full benefits of the Supreme Court decision in said cause, which, of course, will antagonize the concession involved in this compromise, and, if insisted upon, will necessarily defeat it. Other holders of trust-debt securities announce a similar purpose. The Langdon suit is, therefore, an obstacle and menace, which we were given to understand would long ago have been removed. You have voted the mortgage of your road, and the release of your past and the reduction of your future rental; and, when you have parted with your stock, you will have done everything on your part to fulfill the terms of the plan of settlement. On the other hand some of the trust creditors are keeping up that suit and holding p

charge of the trust debt in which they are so largely interested.

"The Hazard suit, so called, brought by one of our stockholders to invalidate the mortgage, is still pending, notwithstanding the denial of the injunction. It may be carried to the United States Supreme Court, and there it may be held that the new bonds have no security. This possibility will be given such weight as you choose in considering whether or not to exchange your stock so long as any obstacles to the complete fulfillment of the compromise exist. The directors had earnestly hoped that, before the time for your annual meeting, all occasion for further negotiations or contests would have passed, and that you would be in possession of a valid and valuable, though diminished, security, and in the enjoyment of its income. They yet hope that concessions by dissenters on both sides will make this result soon attainable. But, so long as uncertainty of it exists, and further parley or struggle may ensue, the control of our company should remain distinctly in its own interest, and not be suffered to fall into the hands of the other party to the compromise or controversy. At least, so it seems to us."

Vicksburg, Shreveport & Pacific.—Track-laying on

Vicksburg, Shreveport & Pacific.—Track-laying on this road was recently commenced and the rails are now reported down from the old terminus at Monroe, La., westward 21 miles. At this point a little delay will be caused by waiting for the completion of a bridge. The grading is now substantially completed on the whole extension of 96 miles from Monroe to Shreveport.

Wisconsin, Pittsville & Superior.—The grading of this road is now completed from Remington, Wis., on the Wisconsin Valley Division of the Chicago, Milwaukee & St. Paul road, northward to Pittsville, 11 miles, and iron is laid to Dexter, 6 miles from Remington. Work is to be continued to Marshfield on the Wisconsin Central road, 17 miles north